HOUSE & GARDEN

JAN 6 1930

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FOUR SUMMERS INSTEAD OF FOUR SEASONS

Mark Twain said that for years everybody has been complaining about the weather, but nobody has ever done anything about it! . . .

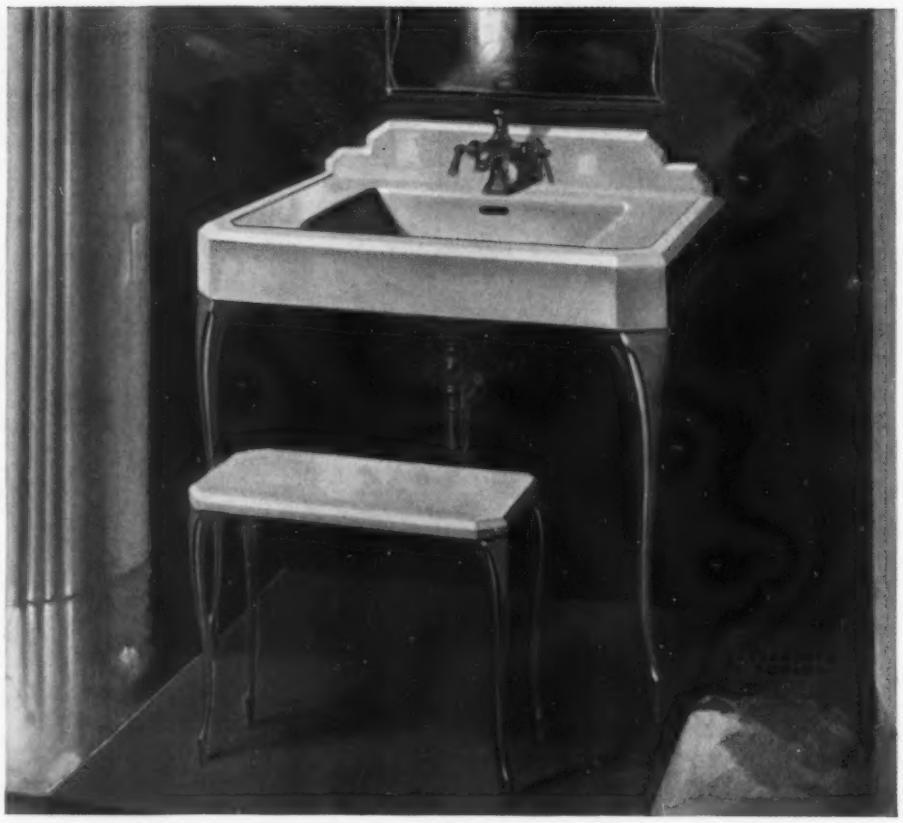
But times have changed . . . Nowadays every man can be his own weatherman.

With American Radiator Heating, you can tune in on Summer in the fury of the blast! . . . Substitute the cheer of Summer Warmth for the chill of Winter Weather—banish the perils of cold rooms—safeguard life in seasons inimical to health—solve the problem of heating with such efficiency and economy as no old-fashioned heater knows anything about!

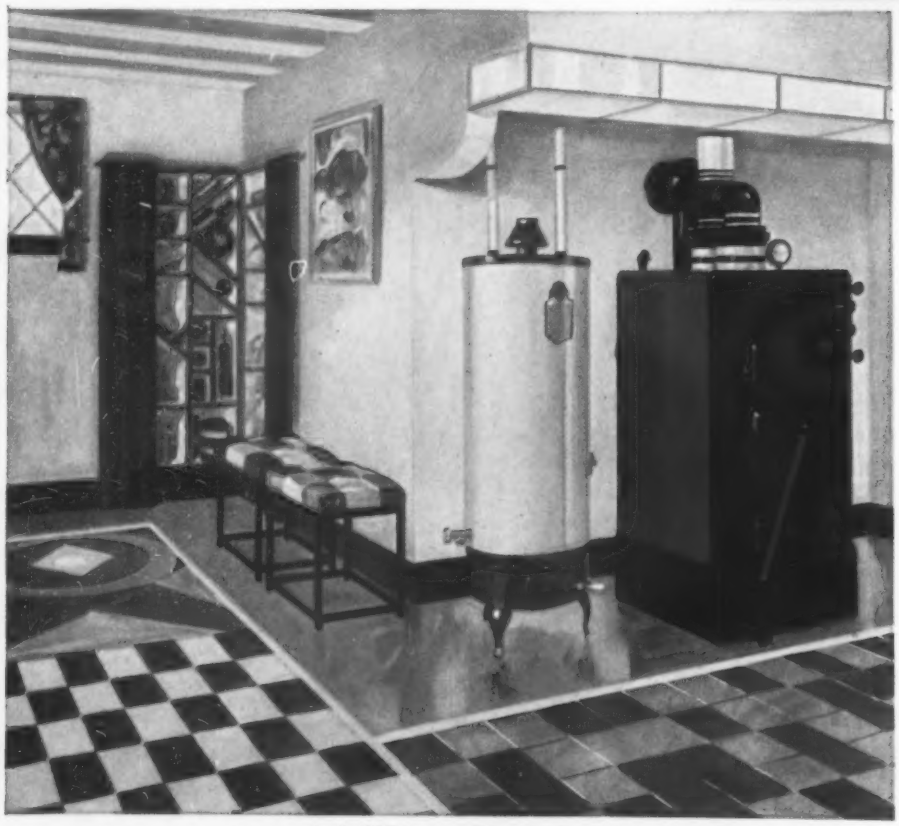
Let's do something about the weather!

And don't worry about the cost!

The total cost is small, and the long-term payments are negligible!



Nothing contributes more to the comfort and health of the family than modern plumbing fixtures. And you may have a perfectly appointed bathroom, even a beautiful bathroom, for less than you may have imagined.



AMERICAN RADIATORS & IDEAL BOILERS — In the "All American" heating plant each part is designed for perfect teamwork. It comprises: an "Ideal" Boiler, "American" Radiators and Accessories (Airid Air Valves, In-Airid Air Valves, Arco Packless Valves), Hotcoil, Kolflash or Excelso Water Heater.

AMERICAN RADIATOR & STANDARD SANITARY CORPORATION
40 WEST 40TH STREET, NEW YORK
SHOWROOMS IN ALL PRINCIPAL CITIES

The Heating and Plumbing Finance Corporation, subsidiary of the American Radiator and Standard Sanitary Corporation, affords the best facilities for the purchase, by convenient payments, of the products of this organization.

"Standard" PLUMBING FIXTURES are made in T'ang Red, Orchid of Vincennes, Royal Copenhagen Blue, Ivoire de Medici, St. Porchaire Brown, Rose du Barry, Ionian Black, Clair de Lune Blue, Ming Green and Meissen White.

There are "Standard" bathroom groups, including lavatory, bath and water closet, for $98, $127, $157, $232, and up to special quotations for exclusive designs with handcrafted fittings. These prices are exclusive of installation cost. All "Standard" Plumbing Fixtures, including the most inexpensive designs, are available in each of nine colors as well as white.

"Standard" Lavatories and Baths have an unusual beauty of line and proportion. "Standard" Water Closets are of advanced design and more hygienic. Faucets are made with the patented "Re-nu" feature.

The full cost of any group you select, including your plumbing contractor's charge for installation, may be divided into small monthly payments. Visit a "Standard" Showroom to learn the full details of this plan and see the new designs and colors.

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- ☐ Interesting book with illustrations in color, "Standard" Plumbing Fixtures for the Home.
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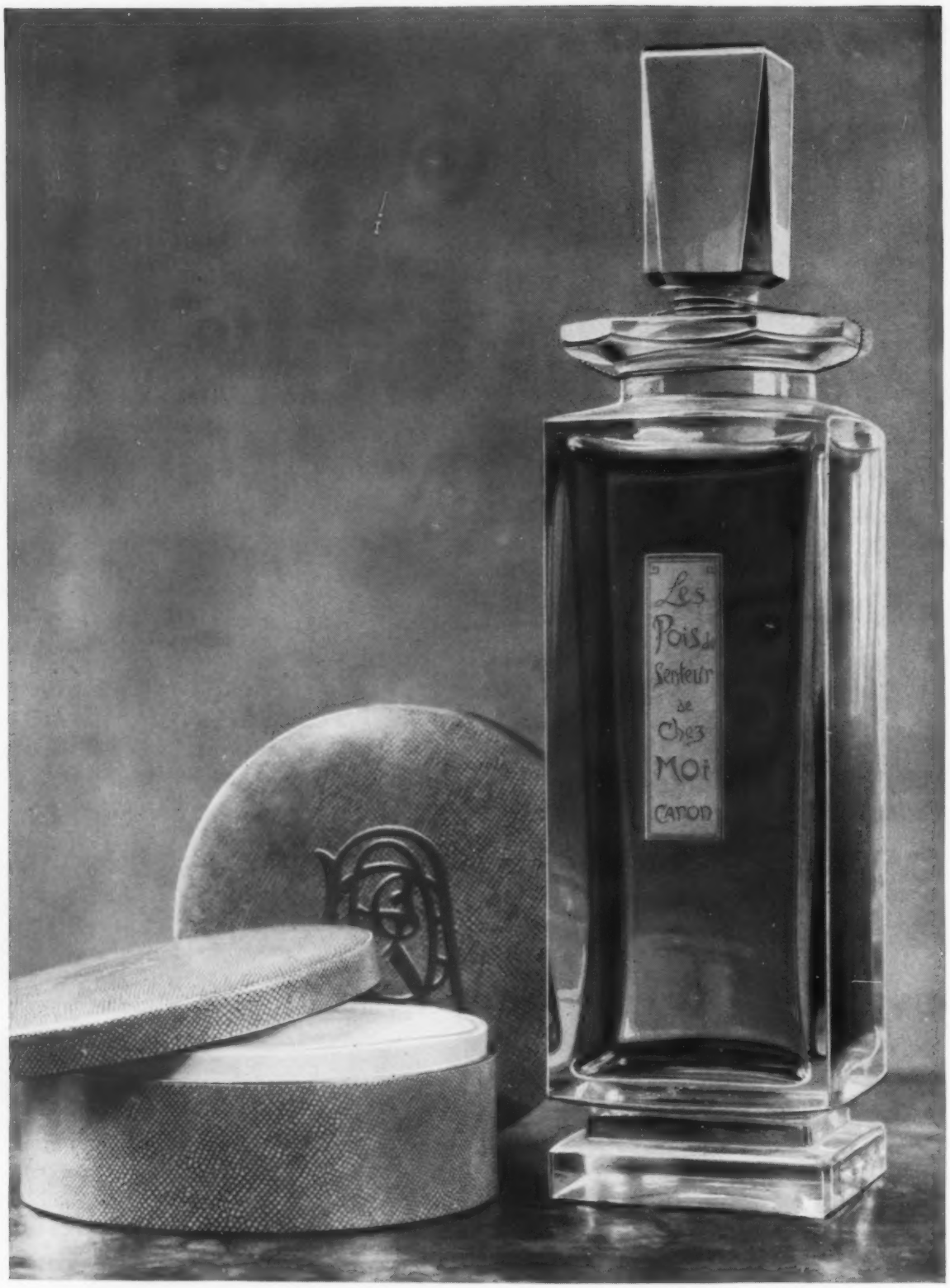

PARFUM ET POUDRE

LES POIS DE SENTEUR DE CHEZ MOI

CARON PARIS

HOUSE & GARDEN
January, 1930

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Vol. No. 57, No. 1

When closed, the desk becomes an impressive chest or highboy with ample drawer space

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YOU will find among the six hundred Kittinger reproductions many distinctive and comfortable groups which you may treasure for their heirloom value . . . and you will be agreeably surprised that such authentic furniture is priced within reach of modest incomes.

This Jacobean desk, companion chair and atlas will lend distinction to living room, hall, library, or bedroom. The beauty of line and proportion . . . the charm of richly finished solid walnut, is doubly appreciated when you realize the practical value of such pieces. When closed, the desk becomes a beautiful wall cabinet. The interior arrangement will win your instant admiration. The rush-seat chair is just the right height for writing comfort.

A revelation is in store for those who find it convenient to visit one of the Kittinger Showrooms mentioned below . . . where a cordial welcome awaits you. Let us send you an interesting folder picturing some of these Period reproductions by Kittinger . . . all in solid walnut, mahogany, oak or maple . . . for home, office, club or hotel. Address Kittinger Company, Dept. 44, North Elmwood Ave., Buffalo, N. Y.

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Kittinger DISTINCTIVE Furniture BUFFALO 1866

Strange . . . that the genius of a single family should have guided the smart world for a century in its choice of perfumes! Yet the reign of the Guerlain dynasty has been unbroken for a hundred changing years. The loveliness of the Empress Eugenie found its complement in the delightful flower odeurs created for her by Pierre Francois Guerlain. The gay rebels who shook off the Victorian yoke found their new daring incarnated in Jicky. The elegantes of today adore the sophistication of Shalimar.

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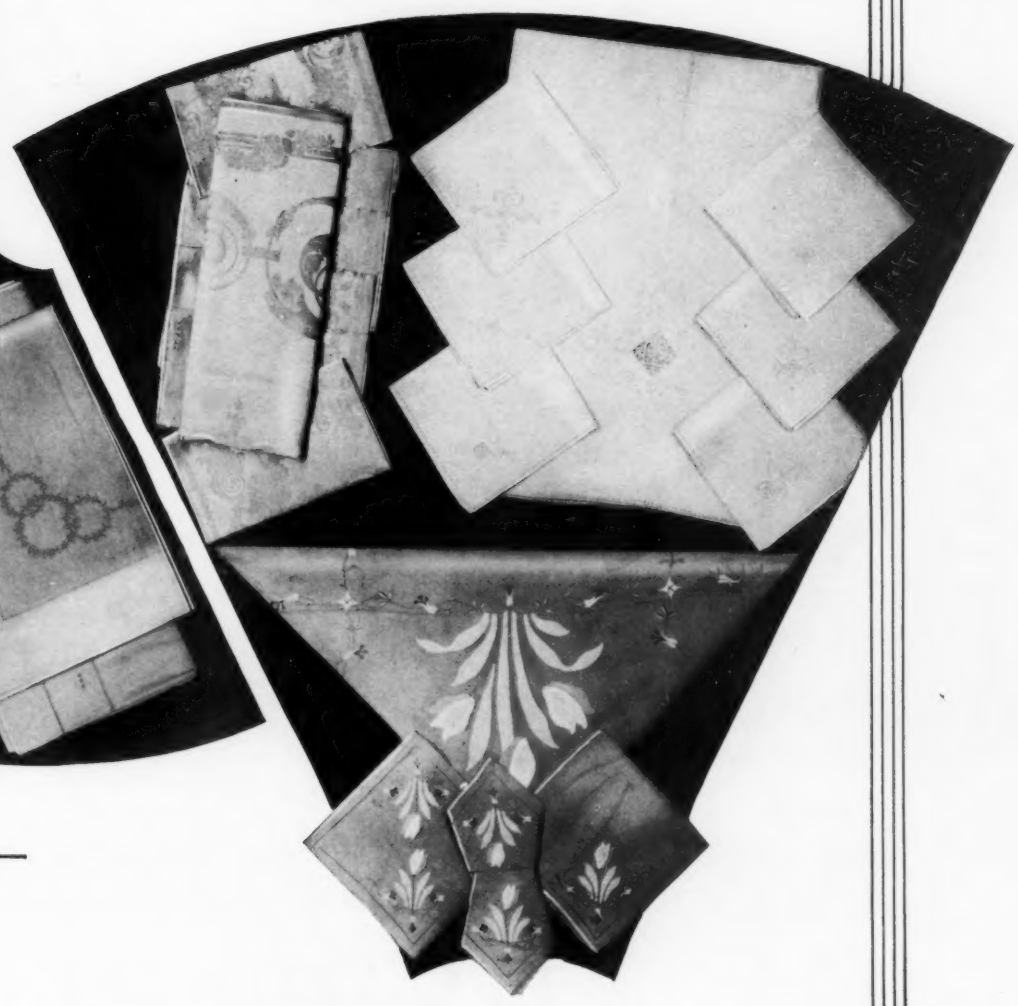
Exquisite Linens ...Choice Bedding

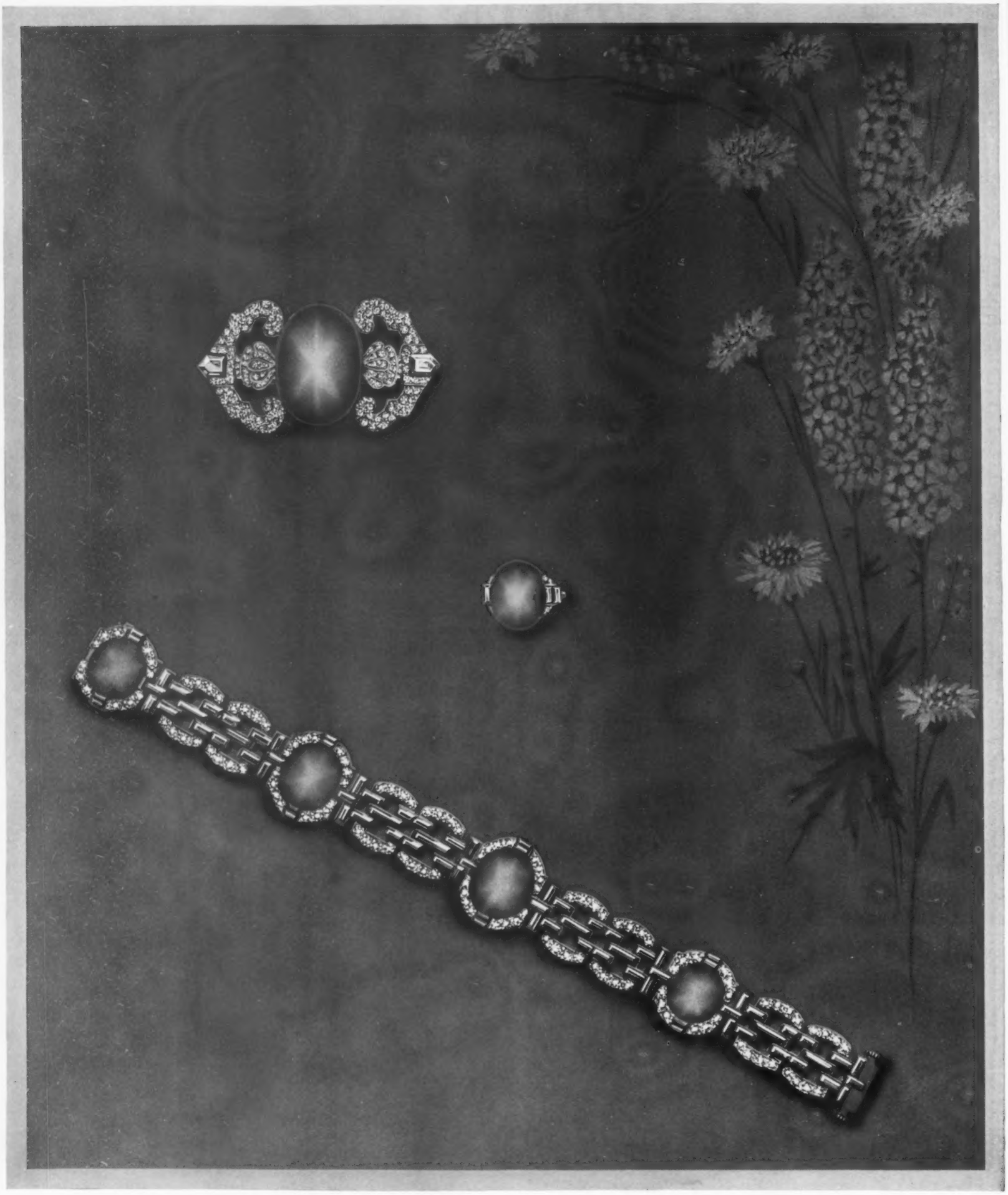
Add Beauty To The Home

Altman, alert to this phase of fashion, presents a wealth of delightful ideas to aid the hostess who gives due rank to her linens and bedding.

Illustrative of exceptional value is the Italian hand-made dinner and luncheon set of natural linen (upper right) with cut work and plentiful embroidery. The cloth is 72x72, the six napkins are 16x16 inches, priced $15.50



LINENS AND BEDDINGS—
FOURTH FLOOR



Rare star sapphires of corn-flower blue, fascinating in their ever-changing charm.
The pieces illustrated show delightful presentation of these fine gems.

J. E. CALDWELL & CO.

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shakers
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slicers
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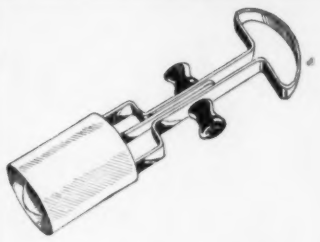
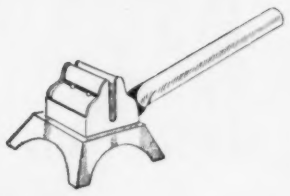
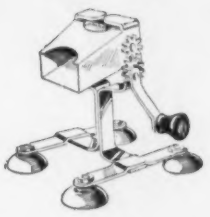
and patters



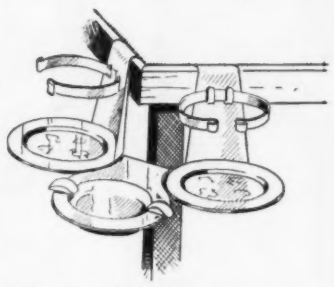
No grapefruit a complete succes without a grapefruit center remover. Gets seeds along with beaverboard partitions. $1.39



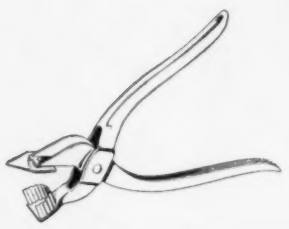
The enemy of housewives' fingers — keeps knives sharp with a minimum of effort; insert knife, push and pull. $1.14



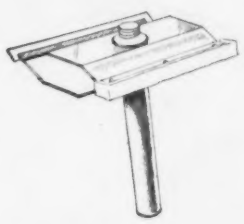
Peas venturing into the jaws of this contrivance beware—you will have to proceed to the pan naked. Also lima beans. $1.17



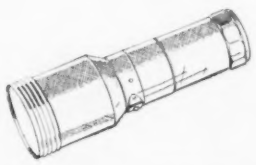
The card-table cover stays clean for more than one game if you suspend ashes and wet glasses in mid-air . $1.39



The soul that yearns for beauty will like to decorate the edge of its grapefruit, or perhaps its breakfast orange . . $1.39

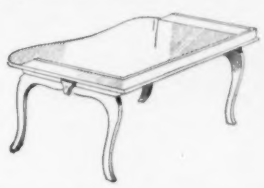


You can pretend you're a professional window washer (if you want to) with this small, collapsible cleaner . . 94c



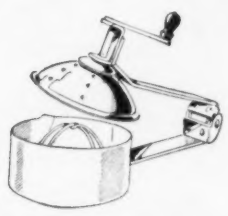
This flashlight, besides making a companionable humming sound in your ear, does not need a battery, ever. $9.34

Unobtrusive dish towel or clothes drier which shuts up flat against the wall when you haven't time to feed it. $1.29

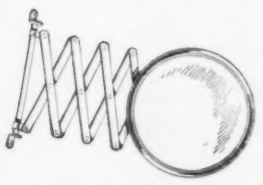


When you feel an urge for breakfast in bed now, you do not need to balance your tray on one knee. This tray has folding legs. $4.36

Wing and leg remover. The master of the house need not have curvature of the spine from carving slippery fowls. $2.94



Perhaps this fruit juice extractor does give the lemon or orange a bad moment, but it's over quickly . . $1.17



It acts like an office telephone, but it really is one of those terrifying shaving mirrors that magnify . . . $4.24

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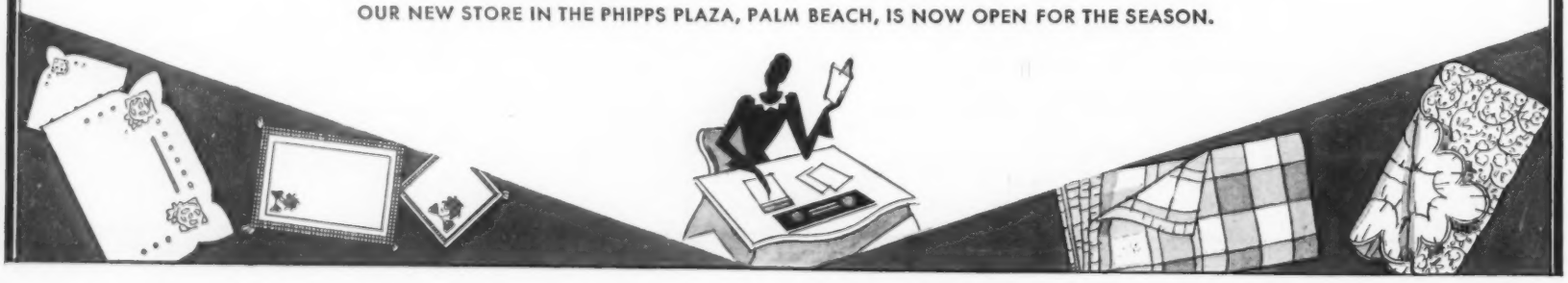
JANUARY SALES

Our January Sale Booklet gives you a cross-section of McCutcheon's. It describes and illustrates the exceptional values offered for the month of January in Towels, Bath Sets, Sheets, Pillow Cases, Blankets, Comfortables, Table Damasks, Decorative Linens, Nurses' and Maids' Uniforms, imported and domestic Lingerie, Negligees, Curtains and Drapery Fabrics. In addition there are two pages of the smartest Spring dress silks, woolens, cottons and linens.

With this booklet before you, you can take advantage of the McCutcheon January Sale without leaving your easy chair. And you may rest assured that every item shown in this booklet is standard McCutcheon quality — exactly the same as the merchandise you buy over the counter. There's an order blank to save you time and trouble in shopping by mail. Of course, your mail order will be correctly and promptly filled. A post card addressed to Department 44 will bring you your copy of the booklet.

OUR NEW STORE IN THE PHIPPS PLAZA, PALM BEACH, IS NOW OPEN FOR THE SEASON.

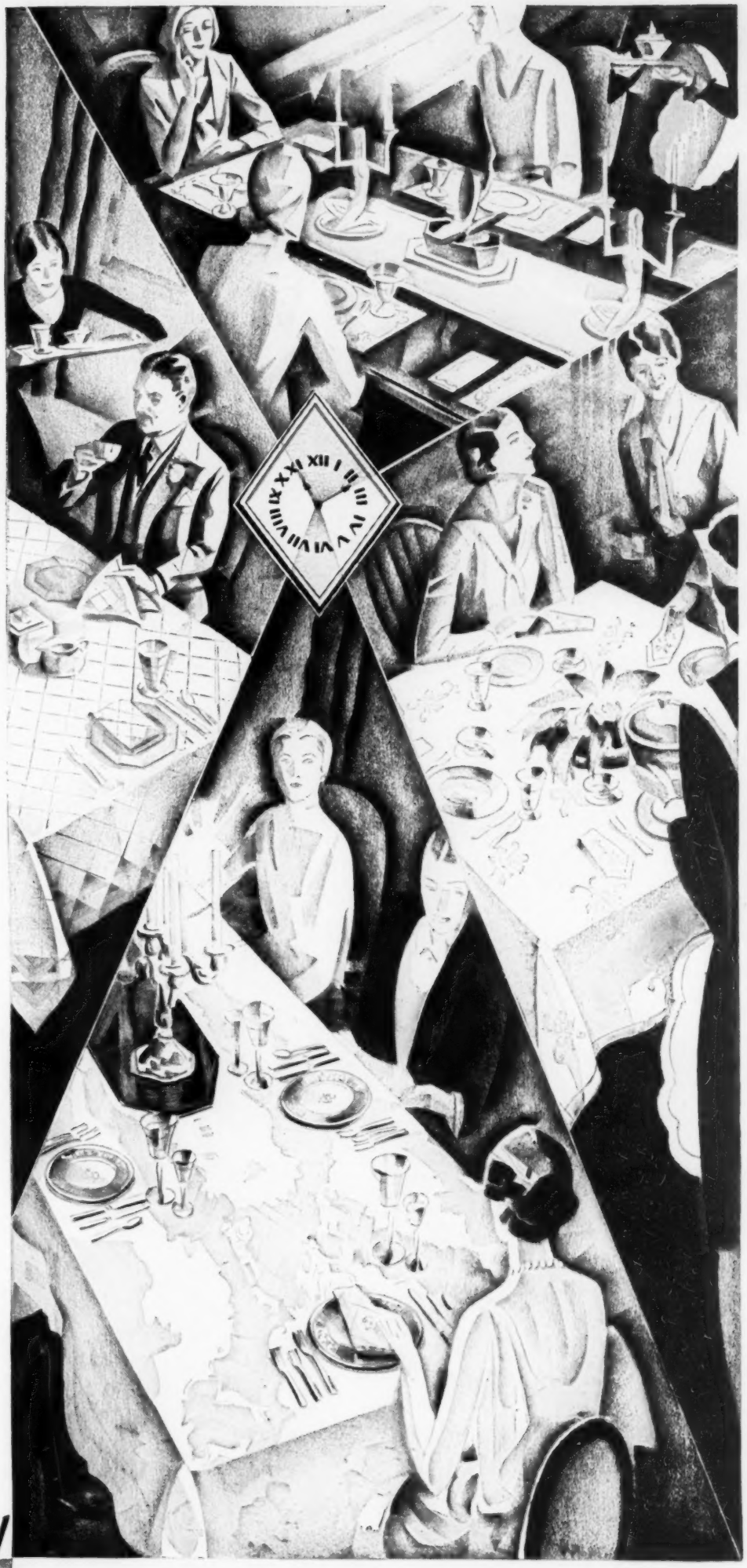


Around the clock . . . . *Linens*

At breakfast in an illustrious old plantation mansion on a moss-hung, palmetto-fringed road to New Orleans . . . at luncheon in a spacious, Spanish, flagged patio of Tucson . . . at tea in a wide, white, beautifully built house overlooking the Columbia river drive, west of the west's Portland . . . at dinner in a venerable stone manor on famed Sixteenth Street in Washington, D. C. . . . wherever gracious entertainment is understood and practiced, the magic of exquisite linens is called upon to exert its fullest effect. Exquisite linens . . . from Marshall Field and Company.

☆ ☆ ☆

Truly marvelous to behold is Field's extraordinary collection of linens . . . so extensive that its like is not known here or abroad; so exclusive that only at Field's are purchasable many of the world's finest designs and weaves. Heavy, glamorous damasks and fascinating brocades . . . beautiful exotic laces, tracing a delicate, perhaps forgotten motif . . . crisp colored cloths for informal hours . . . the new organdies and voiles . . . There is almost nothing in fine or smart linens that Field's has not secured for you. You are cordially invited to visit the Linen Room when you next come to Chicago.



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GERMAN artisans long have been famed for their skill of craftsmanship, and their devotion to detail; these characteristics are reflected in the rare quality of their finer decorative fabrics — such as Moquettes, Tapestries, and Linen Velours — imported by Johnson & Faulkner. ✣ ✣ In their Showrooms will be found at all times a comprehensive display of these fabrics, as well as the choicest products of France, England, Scotland, Italy, and Belgium.

LAMBERTUS-KIRCHE DÜSSELDORF

The quaintness and charm of the mediaeval lingers in this picturesque corner of old Düsseldorf.

JOHNSON & FAULKNER

Established 1823 — *Wholesale Only*

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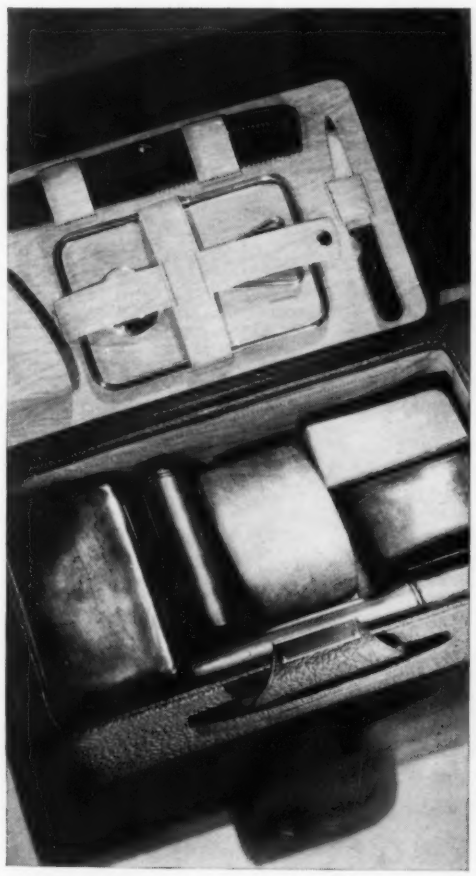
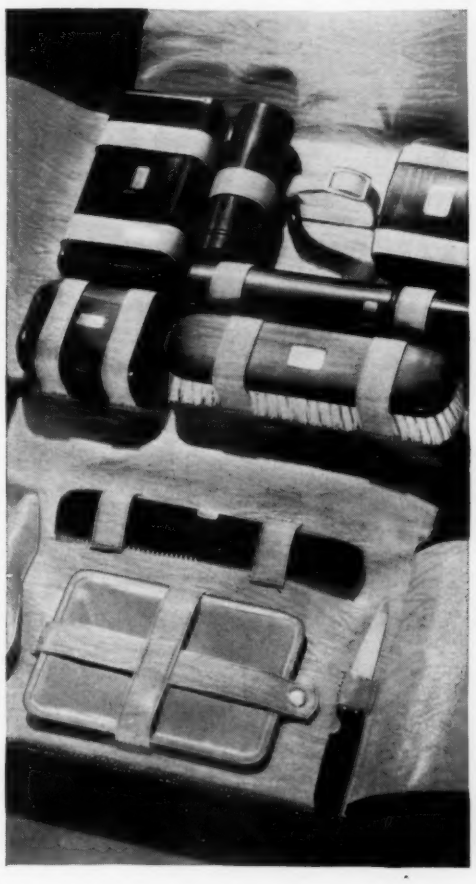
He ought to have a toilet case ...it ought to be the best

TRADE R MARK

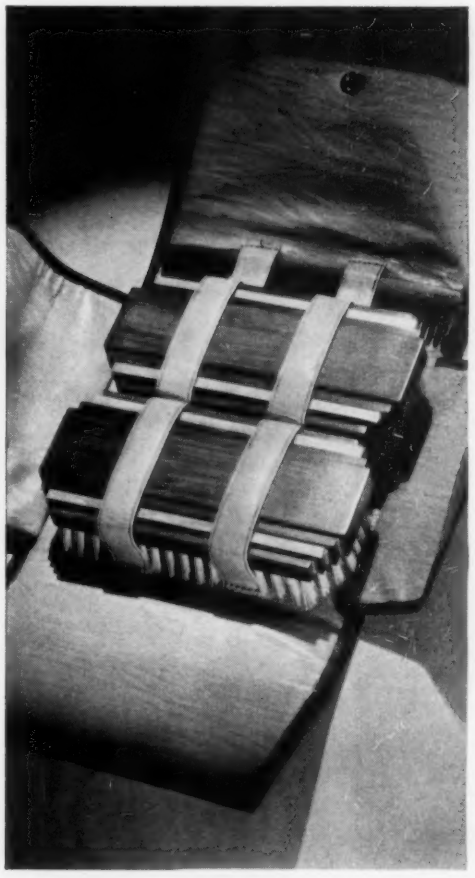
IT IS NOT too much to say that no man should be without a toilet case. He needs one at home, and he needs one when he travels. In Stockholm or the Congo . . . in the country, or at his own apartment . . . mirror, razor and brushes are always where they should be. He knows exactly where to find each object, every time. . . . For generations, men with an instinct for the better things in life, have governed their selection of toilet cases by the same rule with which they decide upon all articles of fine leather. If, by some chance, you could see the cases they have chosen, you would almost invariably find them marked with a tiny golden keystone R. . . . That imprint is the house insignia of C. F. Rumpp & Sons, Inc., an establishment devoted to the making of fine leather goods. It assures you . . . as your own appreciation of lovely things will enable you to sense . . . that you can buy no better gift. . . . Holding the case in your hand, you immediately discern its true value. The very feel and fragrance of the leather reflect the finished materials, and expert, unhurried workmanship. . . . For the men who have labored upon these cases have an enviable knowledge of leather . . . a genuine affection for the work of their hands . . . a passion for excellence not too frequent in this world. . . . C. F. Rumpp & Sons, Inc., manufacture fine leather articles of every description, excepting luggage. At the better leather goods stores, department stores, jewelers, and at stationers.



THE BOX-TYPE TOILET CASE *is much in favor with those men who travel extensively, especially when the journey will be prolonged. A sturdy metal frame supports the soft goatskin cover . . . the hard rubber fittings in deep red are both attractive and serviceable. The same case also comes in ostrich, pigskin, and other leathers.*



A CASUAL INFORMALITY *marks this gentleman's set, in sealskin. The case is most complete, having all the articles necessary for both town and country use. Fittings are of hard rubber, the color of mahogany, with or without 14-carat gold mountings for one's initials. The case also is available in ostrich skin.*



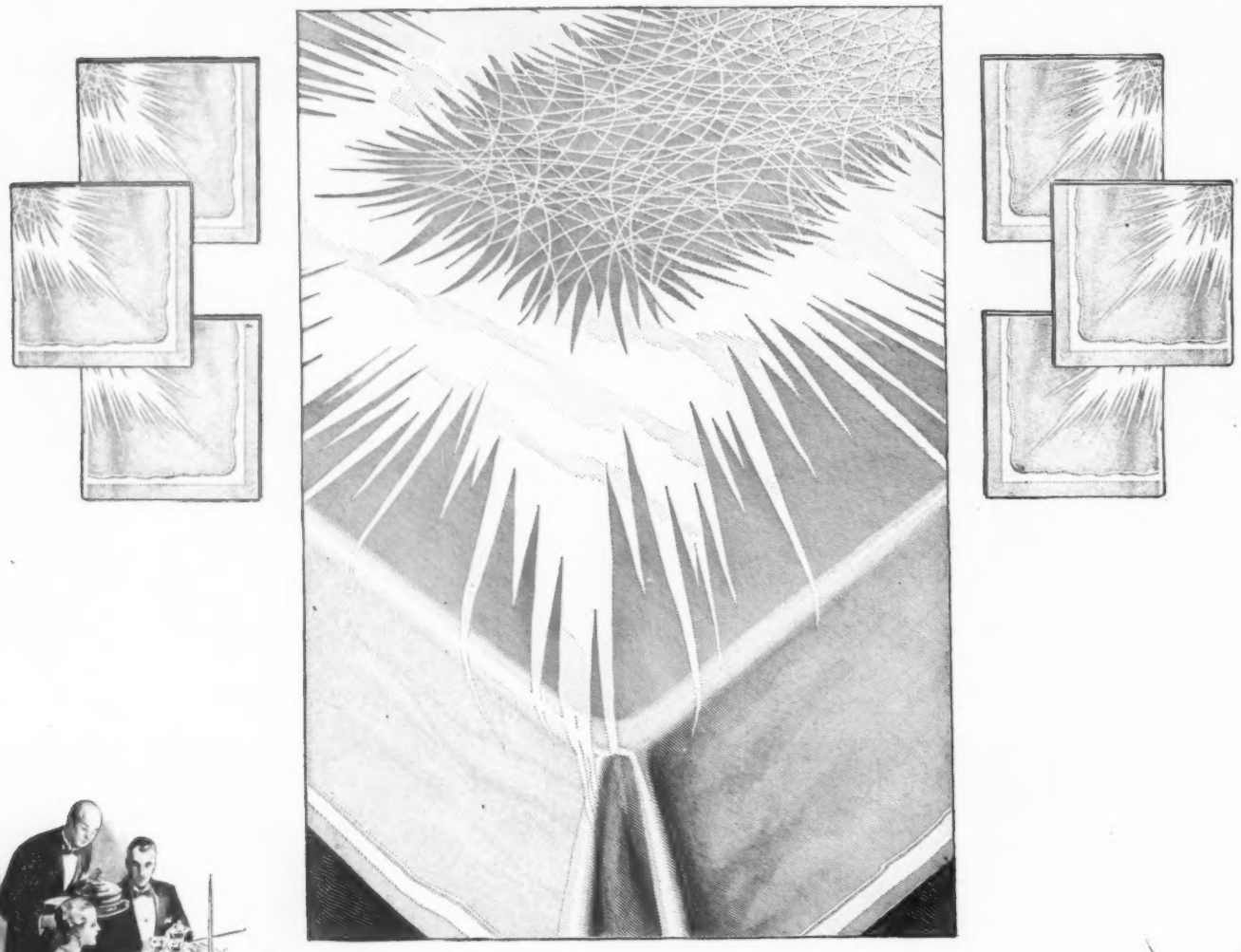
THE MILITARY BRUSH SET *is always in vogue. The man who must leave town on short notice finds it indispensable; small and compact, it requires but little space. The two smart brushes in this set are ebony-backed, with silver mountings. The case is of goatskin, though it may also be had in a variety of other leathers, with other brushes.*

C. F. RUMPP & SONS, INC.

PHILADELPHIA . . . ESTABLISHED 1850

By Invitation Member

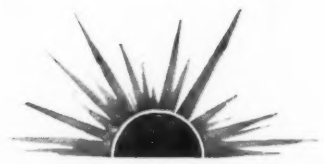
LINEN DAMASK
Loomed Luxury for the Table



TO THE EYE of taste, there is incomparable distinction in the subdued luxury of Linen Damask laid upon the table. Its exquisite weave, its delicately modulating tones, encompass the ritual of perfect service with a harmonious beauty that is the highest virtue of correctness. The looms of Ireland and Scotland have excelled through the centuries in creating Linen Damask Cloths and Napkins imbued with a supreme expression of this special charm. In homes where the perfect appointment of the table is a first principle of the art of living, Irish or Scottish Linen Damask is essential.

In White, or Pastel Tints. Moderately Priced

"We Dine on Linen Damask", a charming booklet on correct table settings, will be sent you on receipt of ten cents to cover mailing cost. Address The Irish & Scottish Linen Damask Guild, 260 West Broadway, New York.



THE SUNBURST

This cloth is loomed in Linen Damask to an inspiration from the radiance of the Sun. With consummate feeling for dynamic rhythms, master weavers have created a design of conventionalized irradiations and suggested shadows, ingeniously utilizing the dual tone of the fabric to an extraordinary brilliance of effect. It is one example from many exclusive designs offered to the discriminating hostess.

LOVELY LINEN
DAMASK TABLECLOTHS & NAPKINS
impressively correct

SEE THE NEW IRISH AND SCOTTISH WEAVES AT LEADING STORES

"When It's Carnival Time In Cuba"

(FEBRUARY 9th TO MARCH 9th)

and at all other times . . .

You will want to visit El Encanto, just as you do the Capitol, "Morro Castle" and the "Casino Nacional", for El Encanto is Cuba's largest and smartest department store—truly Spanish in atmosphere but with a scope in treasures as wide as the world . . . Spanish Linens—Shawls—Antique and novelty jewelry—fans—gowns and millinery from Paris—imports from all over the world!

El Encanto—"The Perfume Center of Cuba"

A captivating variety of French perfumes very reasonably priced because of lower Customs' duties. Jeanne Lanvin's famous "My Sin" and the newly created "Amour Espagnol" (Spanish Love) are among the favorites, sold exclusively by El Encanto.

Carnival Costumes Made to Order

So accomplished are our modistes in the creation of typical Spanish costumes that El Encanto has designed most of the prize winning models of recent years.

Write for our interesting new TOURIST BOOK.

El Encanto —Havana

Cuba's Largest and Smartest Department Store

Lopez Méndez

Branches at the Hotel Sevilla, Hotel Almendares, Hotel Presidente, and also in the city of Camaguey, Cuba

Louis XIV Mantel of French Marble with mounts and ornaments of gilt bronze, $2650. Louis XIV Andirons of gold and bronze, $750. Iron Placque with Coat of Arms of France, $75.

WM. H.

OVER A HUNDRED YEARS OF SERVICE TO THE

This Mantel of Louis XIV reflects the Beauty of Versailles Artistry

"DRAW your chair a little closer," is the cozy invitation of this lovely French Mantel.

"Here in the warmth of my hospitality let us recall the days of Louis XIV and of Colbert, his great minister — days when the whole French nation was leading Europe in numbers, wealth, intellect and energy.

"Versailles! What memories! What brilliance! What dignified magnificence! What royal ceremonies! Those towering wigs! The embroidered velvets! Luxury in all its regal splendor!

"I was inspired into being through a masterpiece of that talented artist, Jacques Caffieri. I am, so connoisseurs say, a perfect replica of one of the most perfect examples of classic loveliness in French art —the *cheminee de Caffieri,* a chimney-piece in the *Appartement du Dauphin* at the Palace of Versailles!

"I represent the glory that belonged to France at the height of her splendor. I draw my greatest elation from the fact that I belong to the Period of Louis XIV.

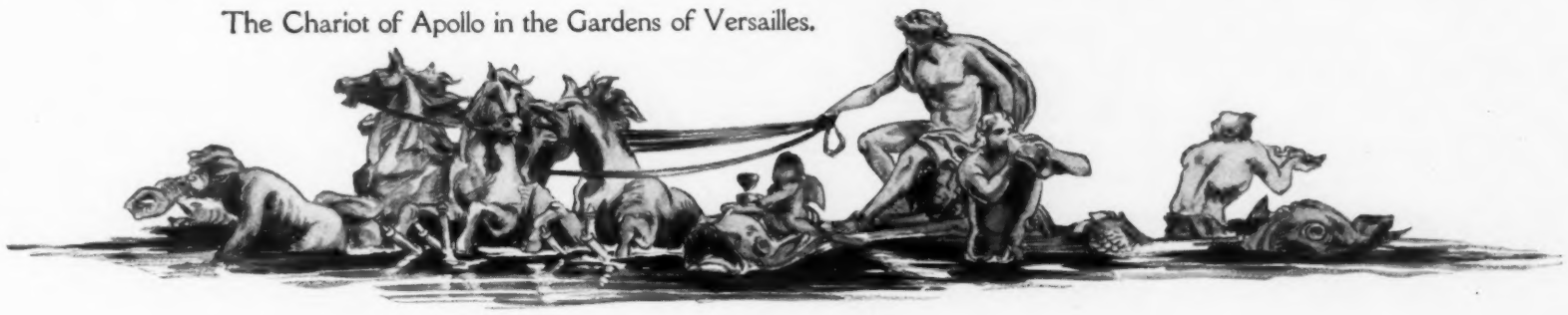
"Somewhere in this great America, I know I am wanted for the central motif of a salon whose reproduction of this period of classic elegance needs a mantel of Louis XIV to recreate the beauty of Versailles artistry in fullest measure.

"I await your commands."

* * *

The foregoing is typical of the rare and lovely treasures which the House of Jackson has garnered from the far corners of the earth for its appreciative patrons. Our galleries are filled with the unusual in fireplace fittings. If you cannot call, your inquiry is invited for illustrated booklet and photographs prepared in your especial behalf. Address us in care of Department HG at New York.

The Chariot of Apollo in the Gardens of Versailles.



JACKSON COMPANY

2 West 47th Street, New York
318 North Michigan Avenue, Chicago

PROMINENT FAMILIES IN THE SOCIAL REGISTER

Custom-Type Phaeton

Smart! Exclusive! Distinctive! Convertible! Auburn first introduced this custom-type of car as a production model and made it available for the first time under $5000. Former owners of the very highest priced cars, including costly European importations, quickly recognized its vogue and outstanding value. It is an even finer creation, even more efficient and enduring, even more luxurious, and has increased horsepower. Although you get considerably more value, you pay considerably less. (By continually increasing quality and decreasing cost, is the way Auburn has become the fastest growing company in America.) Again the demand for the rare combination of its power, stamina, comfort and convertible advantages will exceed the supply. The top can easily be lowered and fits snugly in a boot. All four door glasses may be raised or lowered at will. It is an entirely open touring car, or a completely closed car, as you wish. Long, and very low; 130 inch wheelbase and 125 horsepower Straight Eight motor.

AUBURN

POWERED BY LYCOMING

AUBURN AUTOMOBILE COMPANY, AUBURN, INDIANA

THE "SUN GOD" NON-STOP, ROUND TRIP, REFUELING, COAST TO COAST FLIGHT

The Nation's Skyways

are TEXACO HIGHWAYS

Years ago, working hand in hand with our aerial pioneers, The Texas Company developed, even as far back as 1914, specialized Texaco Products to make travel by air safer, surer, swifter. In recognition of their superiority, Texaco Gasoline and Oil were specified for the "America," the first plane designed to fly the Atlantic.

It was Texaco Gasoline and Airplane Oil which carried the "Texaco No. 5" and the "Sun God" on their epoch-making transcontinental flights. *And tomorrow's* giant airliners, each carrying safely hundreds of passengers, will be fueled and lubricated by Texaco. For Texaco's progress in the air since the dawn of aviation is only a hint—a promise of brilliant future achievements.

The Texaco Red Star with the Green T is far more than a trademark. It's a symbol of progress and quality, of specialized products designed to meet exactly the fuel and lubrication requirements of industry and transportation. There is a Texaco lubricant for every purpose.

Flying or Motoring—Tour with TEXACO

TEXACO

THE TEXAS COMPANY, TEXACO PETROLEUM PRODUCTS

THE TRANSATLANTIC FLYER "AMERICA." This flying boat was designed by Glenn H. Curtiss to fly the Atlantic in 1914. Wing spread 80 feet, lifting area 1200 square feet.

ROOSEVELT AVIATION SCHOOL, INC., New York. Army-trained instructors, latest type equipment, daily inspection of planes—and Texaco Aviation Gasoline and Airplane Oil.

THE "TEXACO NO. 5." Capt. Hawks hurled the Lockheed Monoplane, "Texaco No. 5," across the continent and back in less than 37 hours flying time. Records both ways.

LA SALLE

OLDSMOBILE

VIKING

MARQUETTE

GENERAL MOTORS

BODY

+ + + on these cars —

No motor car buyer need sacrifice body quality to price. Notwithstanding their definite and marked superiority, Fisher Body cars are obtainable in every price field.

All the cars whose emblems you see above, also bear, forward at the lower right exterior of the body, the signature plate of Fisher Body craftsmanship—sign and symbol of authentic style, more luxurious comfort and greater durability.

For General Motors cars, Fisher manufactures more than 75 different and distinct body types. In upholstering these body types, Fisher uses the highest grade of broadcloth, Bedford cord, mohair, plush and leather for upholstery materials, and finishes these bodies in an extremely wide variety of colors. These varied colors and materials, multiplied by their many combinations, result in literally thousands of individualized selections—truly a car for every purse and purpose.

Fisher Bodies are mounted upon the greatest chassis in their various price fields. In point of reliability and brilliant performance, combined with low cost of upkeep, General Motors cars have attained the highest mechanical development.

The emblem, "Body by Fisher", appearing in company with the emblem of Cadillac, La Salle, Buick, Viking, Oakland, Olds-

CADILLAC

PONTIAC

CHEVROLET

OAKLAND

BUICK

BY FISHER
and these cars *only*

mobile, Marquette, Pontiac or Chevrolet, is, therefore, double assurance, not only of a better car, but of a better motor car *investment* as well.

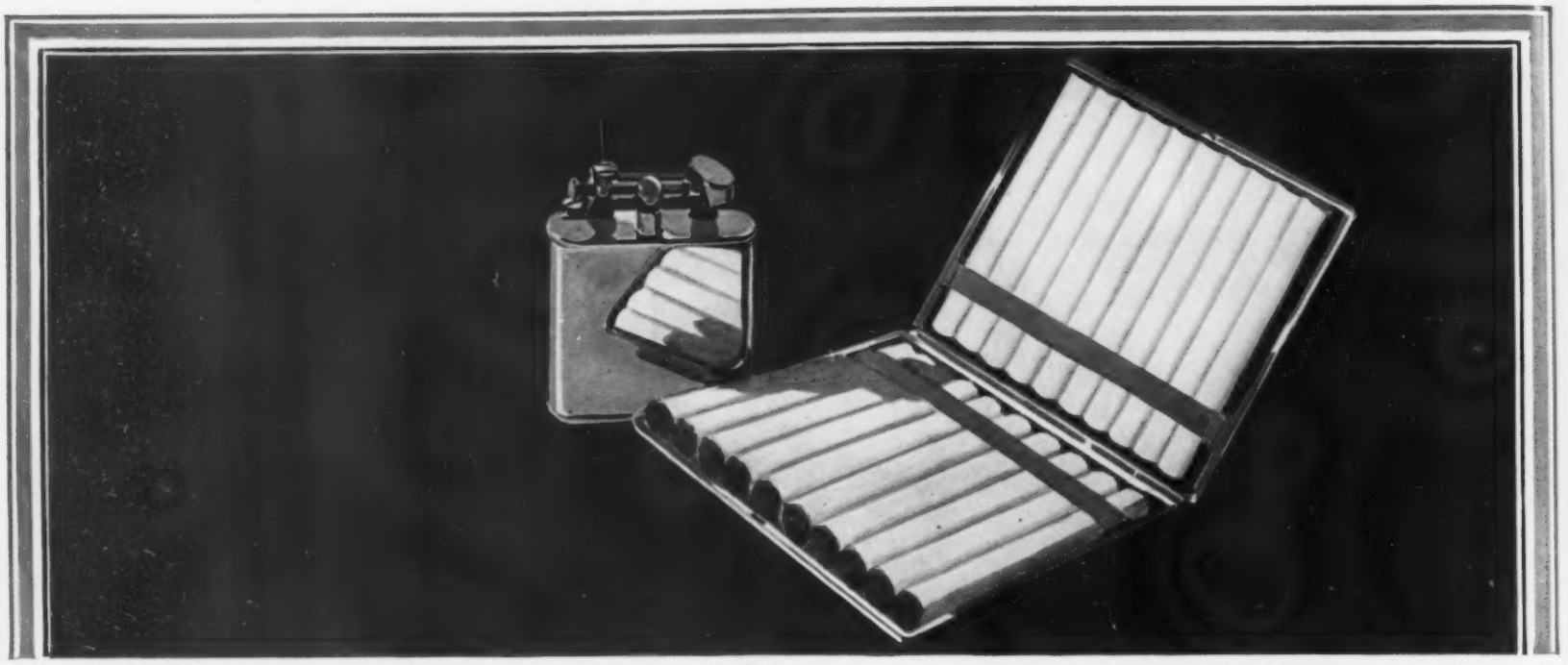
How is it possible for Fisher Body to provide value so much greater? Three fundamental and all-important factors enable Fisher to build far better quality and far greater value.

The first factor is the enormous resources of Fisher. Owning its own lumber, fittings, hardware and glass manufactories—among the largest of their kind in the world—Fisher closely controls every manufacturing step, from raw materials to finished product.

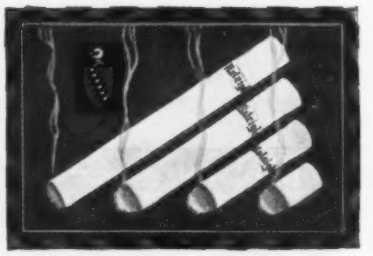
The second factor is Fisher's permanence of market, that market consisting of General Motors cars and *only* those cars. Fisher, therefore, is able to set its manufacturing program well in advance. It has no fear that the expensive machinery busy this year will be idle next year. Fisher's costs are thus held to a minimum. Fisher is able to save importantly, also, in transportation expense, because its plants are units of the great factories of its customers.

The third factor is Fisher Body's unequalled production. Fisher Body builds more closed bodies than any other body manufacturer, thus realizing economies possible only to such production.

Let these facts help and guide you when you select a motor car.



TO transfer Raleigh from its own clever packet to a social contrivance of irreproachable gold will not improve the blended flavor of the cigarette . . it would not startle Raleigh, who was born something of an aristocrat; it will probably not protect the cigarettes' plump, smooth freshness quite as well as Raleigh's own case . . However, stone walls *do not* a prison make, nor golden cases a *perfect* even smoke. ~ *Transfer it, if you like.*



Brown and Williamson Tobacco Corporation

LOUISVILLE .. KENTUCKY

Raleigh
Cigarettes
20 RALEIGH CIGARETTES 20
SIR WALTER RALEIGH'S SIGNATURE TRACED FROM OLD DOCUMENTS IN THE BRITISH MUSEUM
PATENTS COVERING THIS PACKET ARE PENDING.
BROWN AND WILLIAMSON TOBACCO CORPORATION
Twenty Cents
(PLAIN OR TIPPED)
BROWN & WILLIAMSON TOBACCO CORPORATION

Entertaining is a rare delight with a

WURLITZER REPRODUCING ORGAN

THERE'S a lull in the conversation. Then, an expectant hush, as you touch an electric button; and instantly, your guests are listening enraptured to the glorious harmonies with which your Wurlitzer Reproducing Residence Organ floods your home. Symphonies, ballads, classical or popular selections as you will, all are rendered with that brilliant blending of countless tone colors, that soul-stirring grandeur which make the pipe organ the acknowledged "King of Musical Instruments." For entertainment on all occasions, the Wurlitzer residence pipe organ, played either by hand or by reproducing music rolls, and requiring surprisingly small space, brings you the world's best in music. There is no measuring the value of the pleasure it gives your guests and your family, the cultural development it affords your children, the distinction it adds to your home. Yet the cost is only about half what you would expect to pay for so wondrous an instrument. You are invited to hear and play it at the nearest Wurlitzer Studio—New York, Buffalo, Cleveland, Cincinnati, Detroit, Los Angeles, Chicago, Pittsburgh

WURLITZER
REG. U.S. PAT. OFF.
Reproducing Residence
ORGAN

A new idea in home furnishing that gives a new thrill to entertaining

The Home Complete Ensemble Shown by Leading Stores Everywhere

TODAY is the Era of Good Taste. An era of charming gowns, chic hats, rakish motor cars and artistic homes. Standards of living are exacting and exquisite.

Truly an enchanting era in which to live!

But there are penalties. One must now follow the mode—or be *de classe*. No quarter is asked or given. Smartness is a duty. Even friendly eyes are sharply critical. Guests study your home while they sip your coffee.

Shoddy rooms—rooms that quarrel and clash—simply do not go any more. Harmony—charm—the ensemble. These are the touchstones, ruthlessly applied.

And that is why Berkey & Gay created the Home Complete Ensemble—to meet a very definite demand and need for harmony—ensemble—charm—in the smart modern home—and at a reasonable cost.

The Ensemble comprises the Kennerly suite for the dining room, the Kenmore suite for the bedroom, and the Kenwood living room group—each unit also purchaseable separately.

These three groups have been carefully selected to create throughout the home that effect of harmony without monotony, and variety without discord which is the primary object of the modern decorator's art.

Each room, moreover, is planned, down to the smallest detail, by eminent authorities—the floors, the hangings, the objets d'art—and your Berkey & Gay dealer will

The Kenwood Group for the Living Room

Comfortable, inviting, charming, instinct with friendly cheer—these terms come to mind readily when you see the Kenwood in this quietly harmonious setting.

Restful comfort is apparent in the softly upholstered sofa, sofa chair, large wing chair, and pick-up or occasional chair. Convenience holds its calm place in the rectangular smoker's table, the round end table, and the smart Queen Anne console and mirror. And from the warm finish and interesting grain patterns of the walnut wood of which the tables, console, and mirror are built, to the finely chosen coverings of the upholstered pieces, the furniture impresses one with its tasteful, inviting beauty.

The upholstered pieces come in a selection of interesting, varied, and appropriate coverings. This interior is one arrangement worked out by a prominent decorator. The davenport and sofa chair display soft green mohair, with linen frieze reversible cushions. The wing chair is done in bright colored tapestry, the occasional chair in henna colored damask. Harmonious as a group, the pieces are set off in a particularly attractive manner by the colors and texture of the floor covering, walls, and draperies.

Is your living room all that you wish it to be? Why not consider the Kenwood group?—or the individual pieces if you wish. They are all being displayed now.

BERKEY & GAY FURNITURE COMPANY • GRAND RAPIDS • MICHIGAN
DIVISION OF

show you diagrams and color charts which will enable you to create these effects without difficulty and without recourse to costly outside aid.

It has been possible to include the entire home in this new plan because of Berkey & Gay's recent announcement of a complete showing of furniture for the living room.

Visit your dealer's at the first opportunity and see this beautiful, harmonious grouping of suites and pieces. Also ask to see his *complete* display of advanced Berkey & Gay offerings — an infinite variety of charming new modes by America's foremost creators of style in furniture.

The Kennerly Suite for the Dining Room

Here is Elizabethan furniture, authentically translated for the modern home—and set off by a background beautiful in itself and intimately calculated to display the suite to the best advantage.

In the furniture, note the lovely grain-patterns of the woods, the authentic character of the lines, and the no less authentic motifs represented in the mitred mouldings and hand-carved embellishments. The refectory or draw-out type of table, the high-back upholstered arm chair, the court-cupboard-like china cabinet, and the understructural details are all distinctly done and are all satisfyingly true to the style of the suite. The cabinet has a linen-fold decoration and partitioned drawers for silver.

Rough plastered time-tinged walls and hand-hewn oak beams bring the basic background into harmony with the furniture. Into this harmony, too, enters the old green chenille floor covering and the velvet upholstery of the chairs. Carrying out the pattern, typically English hangings of hand-blocked linen flank the windows, the draw curtains of which are of very fine wool casement. And old Edgewater tapestry in dull greens and blues, old reds and somber golds, completes this richly inviting ensemble.

Can you imagine a room in which gracious hospitality and the joy of entertaining would have a more distinguished setting?

Furniture's Proudest Coat of Arms

Inset in every Berkey & Gay piece—your protection when buying—your pride ever after.

The Kenmore Suite for the Bedroom

Its superb harmonies of grace and comfort have made Queen Anne our most popular furniture style. And here it is presented in a particularly intriguing form and setting for the modern home.

You will love the Kenmore for its mellow finish and its herringbone and crotch-figured woods, its substantial but flowing lines, the antique touch that distinguishes its hardware. Beautifully handled are the moldings of the bed, the curve and swell of the cabriole legs, the hand-carved shields that crest the mirrors. And the toilet table is not only bewitching but replete with convenient drawers and trays. The chiffonier is of true high-boy type.

The walls against which you view the Kenmore here are paneled in delicate peach, the round floor covering is in orchid. Peach gauze casts a cool spell over the window, and turquoise toile de jouy complete this delightful effect. On the bed, ivory brocade trimmed in peach, turquoise, and heliotrope taffeta; and the chair and bench are upholstered in peach moire.

What could be more delightful in one's own bedroom than this Kenmore Suite in the appropriate setting pictured here? For restful comfort, convenience, and beauty go hand-in-hand.

Berkey & Gay Furniture

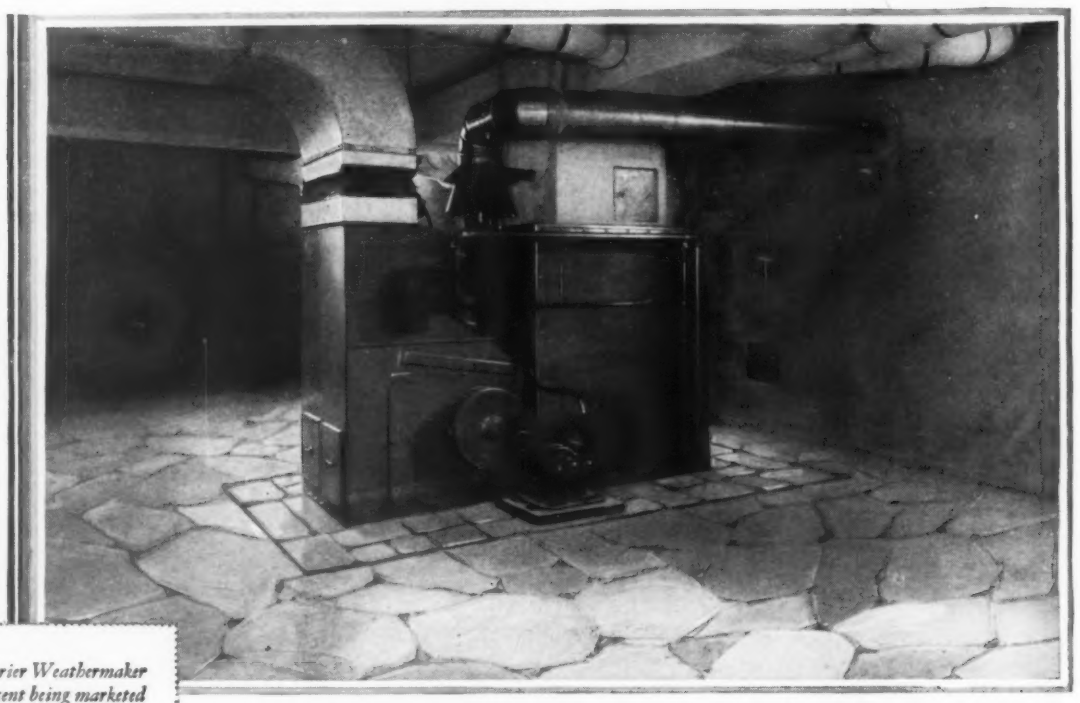
BEDROOM . . DINING ROOM . . LIVING ROOM

FOUNDED 1853 · NEW YORK WHOLESALE SHOWROOMS · 115 WEST 40TH STREET

SIMMONS CO.

Once a bath tub
marked the really modern home

Today it's MANUFACTURED WEATHER



Here is a clean, roomy cellar, with a Carrier Weathermaker installed. Compact, self-contained, and entirely automatic, the Weathermaker maintains an ideal atmosphere in the home by circulating clean, warm, humidified air to every room.

HERE'S *the story of a new type of heating system for the 1930 home that does far more than supply heated air. It conditions the air . . . manufactures indoor weather . . . provides a degree of comfort and convenience almost beyond imagination.*

This weathermaking system is the adaptation for home use of the famous Carrier Systems of Air Conditioning so widely used today in theatres, hotels, department stores and office buildings.

THE *Carrier Weathermaker is at present being marketed and installed only in limited Eastern territory, including the New England states and cities as far south as Washington, D. C., and as far west as Pittsburgh, Pa., and Buffalo, N. Y. We invite inquiries, however, from any part of the country. Branches are rapidly being opened. Send us your plans and let us tell you how the Weathermaker will fit in your house.*

THIS new type heating system is the Carrier Weathermaker. It takes the elements that make outdoor weather—warmth, moisture and air motion—combines them scientifically and controls their relationship to produce perfect weather indoors all winter long.

Until you have been in a home where a Weathermaker is actually installed, you simply can not imagine the improvement that it brings to a family's health and joy of living.

Benefits of air conditioning proved before

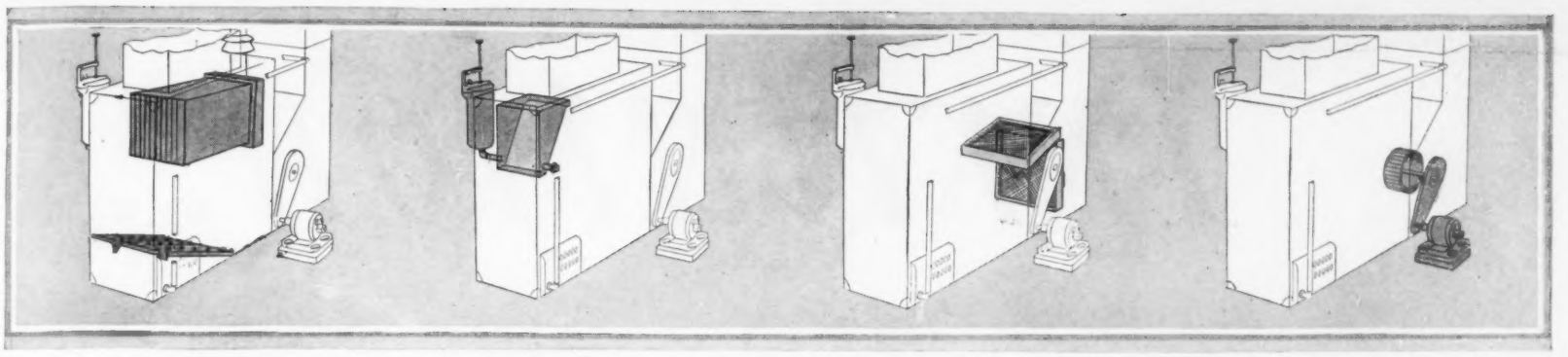
Conditioning of air and manufacturing weather is new only in its relation to homes. For many years Carrier Systems of Air Conditioning have been making indoor weather in industrial plants . . . improvements in the manufacturing of many articles you buy and use and in the health and efficiency of employees.

In moving picture theatres, department stores and other public meeting places where masses of humanity make air conditioning a vital necessity, Carrier Systems add to comfort and protect health.

More than 3,000 of these systems have been designed and installed by Willis H. Carrier and his associates, internationally known air conditioning specialists. These men applied the same principles in designing and perfecting a system specially for home use. And the result of their work is the Carrier Weathermaker for conditioning indoor air in winter.

How does the Weathermaker work to transform living conditions in the home? It supplies a soft warmth that does not overheat the house. It supplies and maintains auto-

One of the many fine suburban houses using a Weathermaker system of air conditioning.



The units shown darker warm the air, which is then supplied with the proper amount of moisture.

The humidifying system supplies and automatically controls indoor humidity all winter long.

The filters that clean the air of dust and dirt as efficiently as a vacuum-cleaner removes dirt from your rugs.

The blower system insures uniform circulation of warmed, humidified, cleaned air throughout the house.

matically a correct relative humidity for the desired temperature. This is as important for the greatest bodily comfort and health as temperature. For the correct relative humidity in a home eliminates the too dry air that medical authorities tell us is so frequently the cause of colds and other winter illnesses.

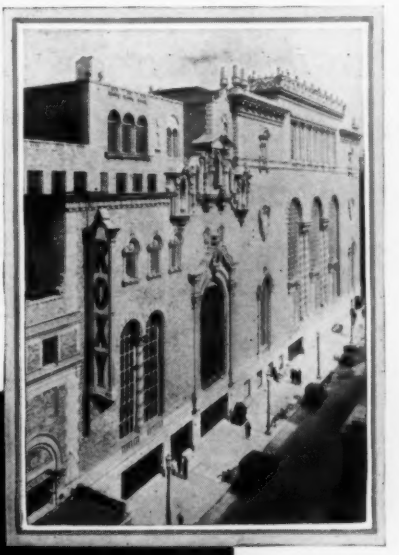
What the Weathermaker gives you

The Weathermaker filters out bacteria-carrying dust particles so that you will have clean, fresh air to breathe. It sends out the warmed, humidified, cleaned air under positive, uniform pressure into every corner of the house, securing even temperature in all parts of every room . . . without drafts—without hot or cold zones.

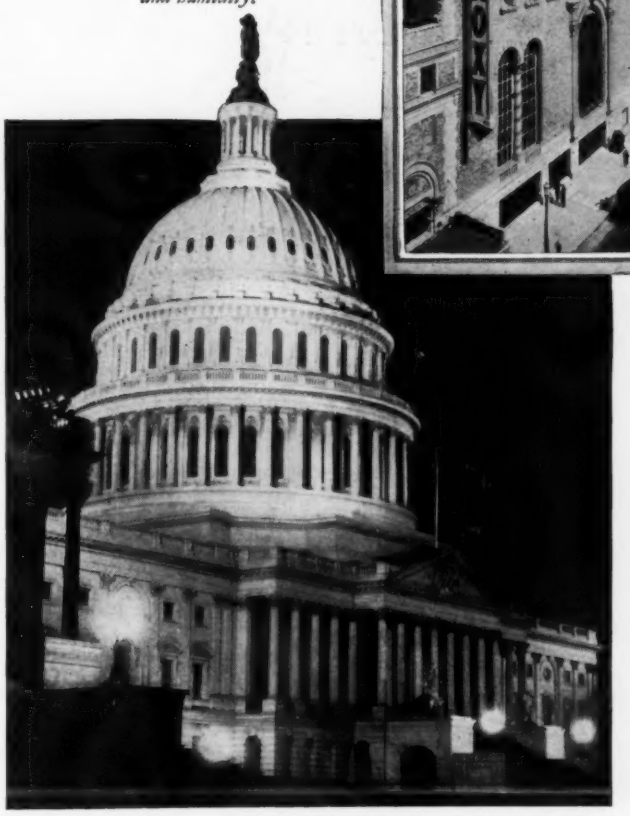
Furthermore, this home system is designed to take a cooling unit, now under development, which will keep your house comfortable in mid-summer.

The Weathermaker is a new source of home health and comfort and cleanliness. It is a combined heating and air conditioning system that furnishes a constant supply of soft, balmy, gently stimulating air all winter long. The calendar may say it's January. But indoors, manufactured weather gives you all the delights of ideal spring or summer weather. And it marks your house as a really modern home.

In the Roxy Theatre, New York, a Carrier System of Air Conditioning makes uniformly ideal weather.



In the Capitol at Washington a Carrier system of Air Conditioning provides clean, pure air—warmed in winter, cooled in summer—conditioned to just the right temperature and humidity.



Gas adds to efficiency . . . is the ideal fuel

Everything has been done to make the Carrier Weathermaker the most convenient and most efficient system available today. After careful consideration of all fuels, gas was finally chosen. This fuel comes into the house with the least possible trouble to you. It is the cleanest fuel. And as used in the Weathermaker, it is the most efficient fuel.

This unusually high efficiency, together with the new lower gas rates in many cities, brings the cost of gas down to a surprisingly low level. Do not say to yourself that gas is too expensive for you to use for heating until you have investigated its cost in connection with the Weathermaker. You may later regret having deprived your family of this feature of the modern home.

Consider, too, that the gas company is your fuel bin. You use gas only when you need it. You pay only for what you use, after you have used it. And with the supply coming constantly from the gas company, you eliminate the drudgery and dirt of handling coal and ashes. You save space in your cellar which you can finish off, keep clean and use as an extra room.

What of the cost of the Weathermaker itself? That, too, will surprise you. The initial cost is little if any higher (and is sometimes lower) than that of high-grade systems that merely supply heat—and have none of the other advantages of the Weathermaker.

Service to home builders

We offer a complete service, which covers details of estimating heating requirements, laying out and installing a Weathermaker system. Trained representatives will work with home owners, architects and heating engineers or contractors, from the inception of the plans to final operation.

The home owner who now has a warm-air furnace can replace it with a Weathermaker and modernize his home, using the present warm-air ducts.

While you are thinking about a Weathermaker for your home, let us send you our booklet which tells in detail the many advantages of this new system. Your copy is free. Just address Carrier-Lyle Corporation, 850 Frelinghuysen Avenue, Newark, N. J.

CARRIER-LYLE CORPORATION,
850 Frelinghuysen Ave., Newark, New Jersey

Gentlemen: Please send me, free, your booklet, "The Carrier Weathermaker."

Name.....

Address.....

.....

HG 1-30

Carrier Weathermaker

Trade Mark Reg. U. S. Pat. Off.

Warms · Humidifies · Cleans · Distributes

Irritation...

Replace your stopped-up water pipes with Chase flexible Copper Water Tubing

DOES your shower slow down to an irritating dribble when a faucet is opened downstairs? Then Chase Copper Water Tubing will end your troubles—permanently.

Before Chase Copper Water Tubing was introduced, rigid pipe was the only pipe. Easy enough to install while walls were open in homes under construction but difficult and destructive to take out and replace later.

Beautiful tile walls had to be ripped open, plaster, paint and wall paper were patched, never to look the same again.

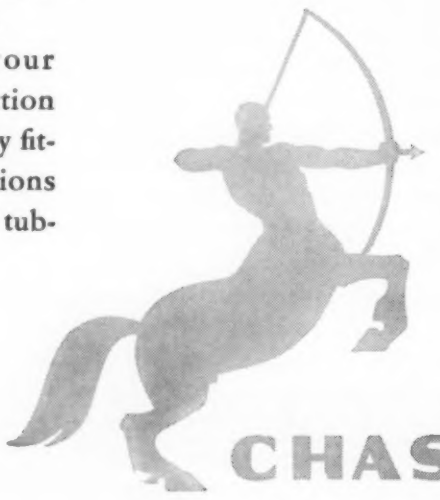
Now your plumber works quickly, efficiently. He'll probably leave the old pipe right where it is, and work the shining new Chase copper tubing in alongside of it.

Because this tubing is flexible your plumber bends it around an obstruction here, a corner there, saving many costly fittings. He makes the necessary connections —and the job is done for all time. This tubing is 99.9% pure copper. It cannot rust.

Pipes clogged with rust can now be replaced economically

This new Chase tubing together with special Chase Compression fittings, makes replacement a moderate expense. You end for all time the annoyance of rusty water, clogged pipes, poor water flow. You get

The mark that identifies good brass and copper products



CHASE

or Comfort!

Plenty of clean water through pipes of shining copper

clear, sparkling water at full pressure from every faucet in the house.

Telephone your plumber. Ask him to give you an estimate on replacing your old plumbing with Chase Copper Water Tubing and Chase Compression fittings.

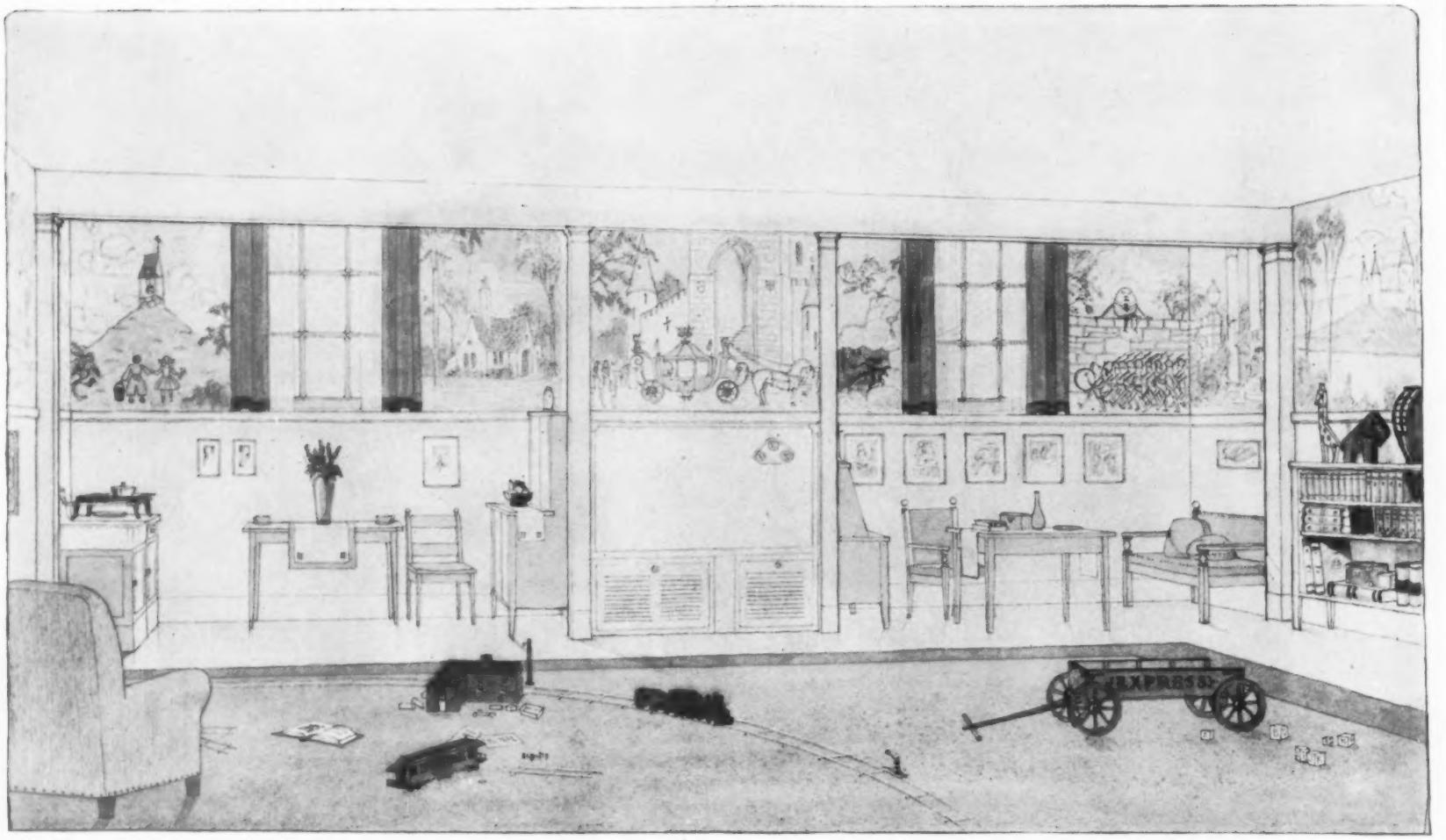
CHASE

CHASE COPPER WATER TUBING comes in a coil, bends around corners, and is 99.9% pure copper. Chase Compression Fittings are marked and guaranteed.

COPPER WATER TUBING

A PRODUCT OF CHASE BRASS & COPPER CO., Incorporated, Waterbury, Conn.

A larger house within the same four walls

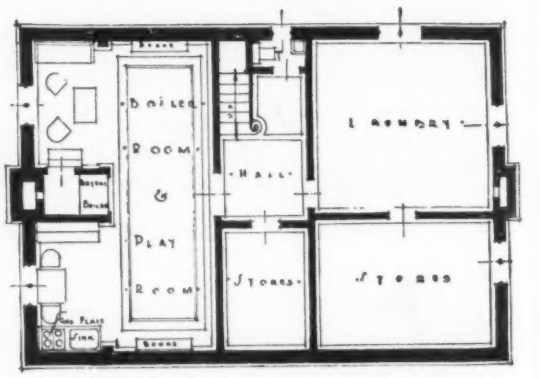


BECAUSE Bryant Gas Heating adds the basement to the clean and useful, livable space, it makes possible a larger *home* in the same *house.* At the same time it makes a cleaner home and a more healthful one.

A Bryant Boiler is "as clean in the basement as it is in the picture." It brings no dirt or grime into the house and generates none. It is silent and odorless in operation. It eliminates the ups-and-downs of temperature so conducive to colds and resulting ailments. And it requires not an extra square foot of space for storage purposes—fuel, refuse or tools—only the floor space required by the boiler itself, without screening or partitions.

Set aside an adequate portion of the basement for laundry and storage and, in a Bryant-heated home, all of the rest can be made a spacious addition to the livable area.

Many a basement can be so arranged as to include both a children's playroom and an adult recreation room. Others are most useful if fitted out with a combination gymnasium and work-shop. A dance floor is highly desirable in some homes, a home-movie theatre in others. All of these uses are practical with Bryant Gas Heating, both in new houses and in remodeled and modernized old residences.



An inexpensive handling of a charming basement play-room is shown above. The "extras" are limited to integral hardening and coloring of the concrete floor, the wall treatment and the compo-board enclosure above the boiler

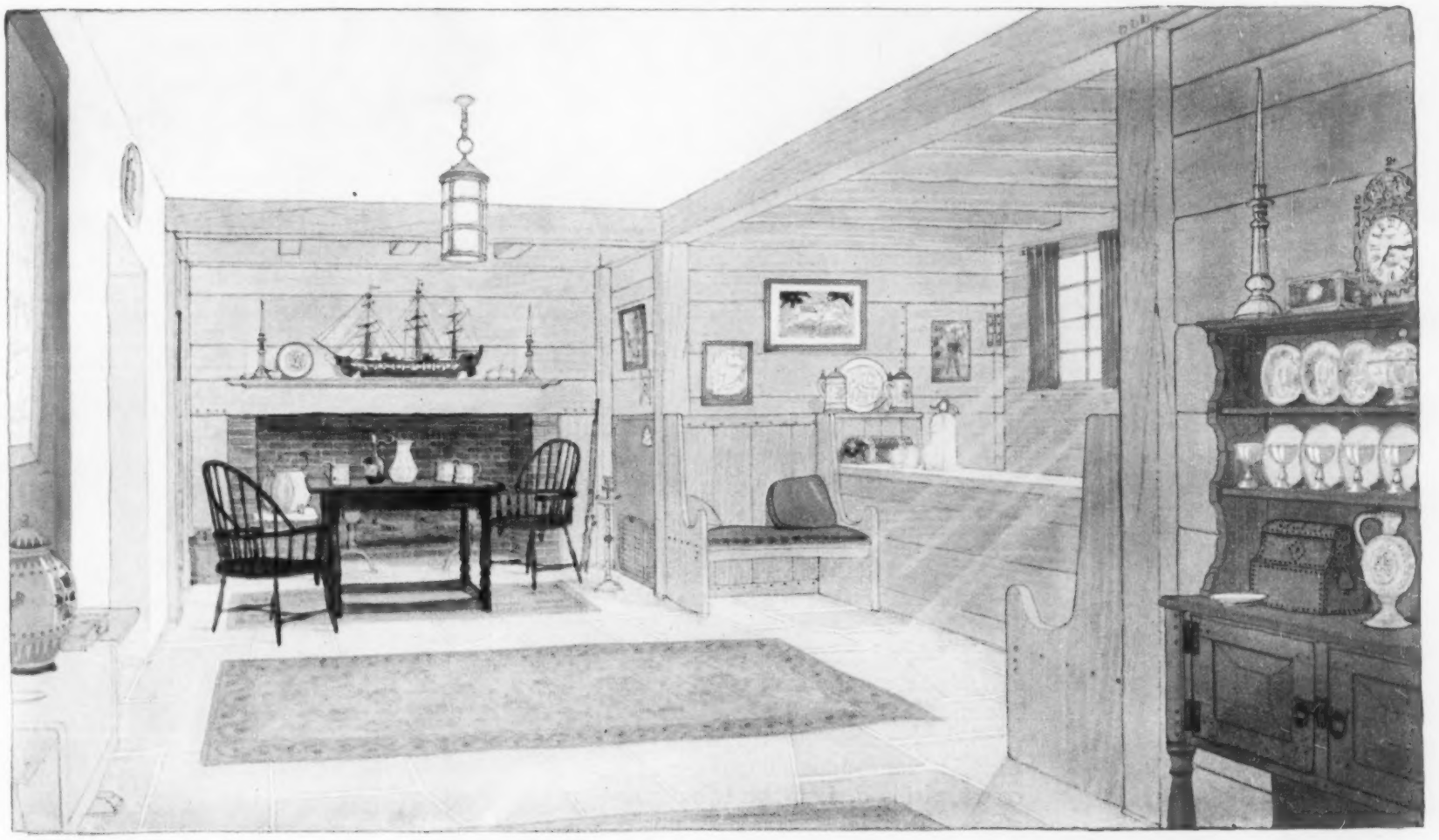
WHERE WINTER-TIME IS BRYANT-TIME

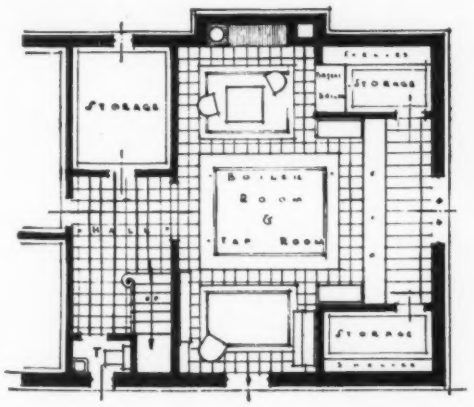
The new Model 45 Bryant Boiler is the one heating plant which meets every requirement of this modern treatment of the basement.

It is a handsome piece of "basement furniture" which can be installed, without screening, in any room or passage and harmonize unobtrusively with its decorative setting. All controls are concealed beneath a stream-line-design cabinet of the same crystalline finish used on other fine metal specialties. A typical refinement of construction is the instrument panel-board where all gauges which ever need passing attention are conveniently grouped, as in an automobile.

Built for service—not servicing,—as thousands of owners will testify, it can be counted upon to give twenty winters and more of dependable heat and with a minimum of human attention from first to last. Visits to the "furnace room" are timed by the calendar, not by the clock. You *"let your pup be your Furnace Man!"*

THE elaborate possibilities of basement space are suggested in this early American ingle, lounge and tap-room, inspired by the "Hall of Capen House" in the American wing of the Metropolitan Museum. Beams and posts are adzed, walls and ceilings of antique plaster, and floor of stone. The movable seat gives access to the boiler controls, the Model 45 Bryant Boiler being "built-in" at right of fireplace.





To add such a room on the ground floor would materially increase the cubical content of a residence. Here, in the basement, it occupies space otherwise of little use.

Free from dirt—free from vapor—free from noise—free from odor—free from revolving parts to wear out or delicate mechanisms to get out of adjustment—a Model 45 Bryant Boiler is the type of heating plant which adds a *permanent* asset to any house, making it a house to be envied in any neighborhood.

For complete details, which will gladly be furnished you without any obligation on your part, write

THE BRYANT HEATER & MFG. CO.
17845 St. Clair Avenue Cleveland, Ohio

BRYANT GAS HEATING

For steam, vapor, hot water or warm air systems in new houses or old residences, large and small

THE FURNACE MONTHS LOSE THEIR TERRORS

Lady Seymour makes available these definite helps in the selection and care of *Blankets*

Blankets that have a distinct health value..

Lady Seymour Blankets are made of all wool, specially selected, and their high heat-retaining, moisture-resisting qualities are due to the great number of little insulating air cells. For this reason, Lady Seymour Blankets afford the lightest, most healthful and most comforting warmth.

The Deauville, Lady Seymour's newest general purpose blanket, makes an effective ensemble with colored sheets and pillow cases. Its novel weave suits it especially to this purpose. Lovely colors.

YOU may have a quick eye for beauty in color and for effectiveness of design. But where is the woman who has the highly sensitive touch that can judge the *amount* and the *grade* of wool in a blanket—whose knowledge is sufficiently scientific to determine the relative values to health and serviceability of various blankets?

Lady Seymour has made it her task to make sure of these things for you—to make certain of every detail that contributes to the beauty and comfort and health-protecting qualities of blankets—every provision that makes for continued loveliness and service. All of these features are incorporated for you in Lady Seymour Blankets, and are promised you by every blanket bearing the Lady Seymour label. Lady Seymour models include solid colors, plaids, designs and two-tone effects. Double and single lengths. Beautifully boxed. At leading department stores.

Lady Seymour's NEW Coverlettes With Hand-Woven Effect

The newest throws for chaise longue or day bed are Lady Seymour's "Arlington" and "Monticello" Coverlettes, with the quaint patterns and deep fringe of the hand-woven coverlettes of the Colonial era. Many colors in combination with white. See them at your dealer's.

SEYMOUR WOOLEN MILLS
SEYMOUR, INDIANA
Since 1866
Also manufacturers of fine all-wool flannels and sport fabrics

Lady Seymour BLANKETS
GUARANTEED ALL WOOL

Blankets that remain beautiful and serviceable

Lady Seymour Blankets are distinguished by their strong, elastic nap which insures soft, billowy warmth through years of wear. This is because Lady Seymour Blankets are made entirely of fine, specially selected wool, handled with greatest care at every step in cleaning, dyeing, spinning, weaving and finishing.

Blankets that retain their size and shape

Lady Seymour Blankets are made of long-fibre wool and the deep, resilient nap may be maintained throughout the life of the blanket by following Lady Seymour's simple instructions.

Blankets that are lovely details in bedroom decoration....

The beautiful designs and enchanting colors of Lady Seymour Blankets are chosen by artists who specialize in bedroom decoration. The weaving is done by master craftsmen. These blankets are of such fine wool that their deep-napped fleeciness is an important feature of luxurious loveliness.

The Navarre is Lady Seymour's most versatile blanket. Because it is reversible, with colors that blend or contrast, it is adaptable to almost any decorative scheme. It is particularly effective when folded across the foot of a bed by day.

Get this book!

A valuable book on the selection and care of blankets will be sent without charge if you will sign and mail us the coupon below.

Sign and Mail This Coupon Today

Do you know the health-protecting values of fine wool blankets? Do you know how to keep your fine wool blankets moth-free? Do you know how to keep their billowy fluffiness through many years of washing? Write today for Lady Seymour's free booklet, "How to Choose and Care for Blankets".

Seymour Woolen Mills, Seymour, Indiana.

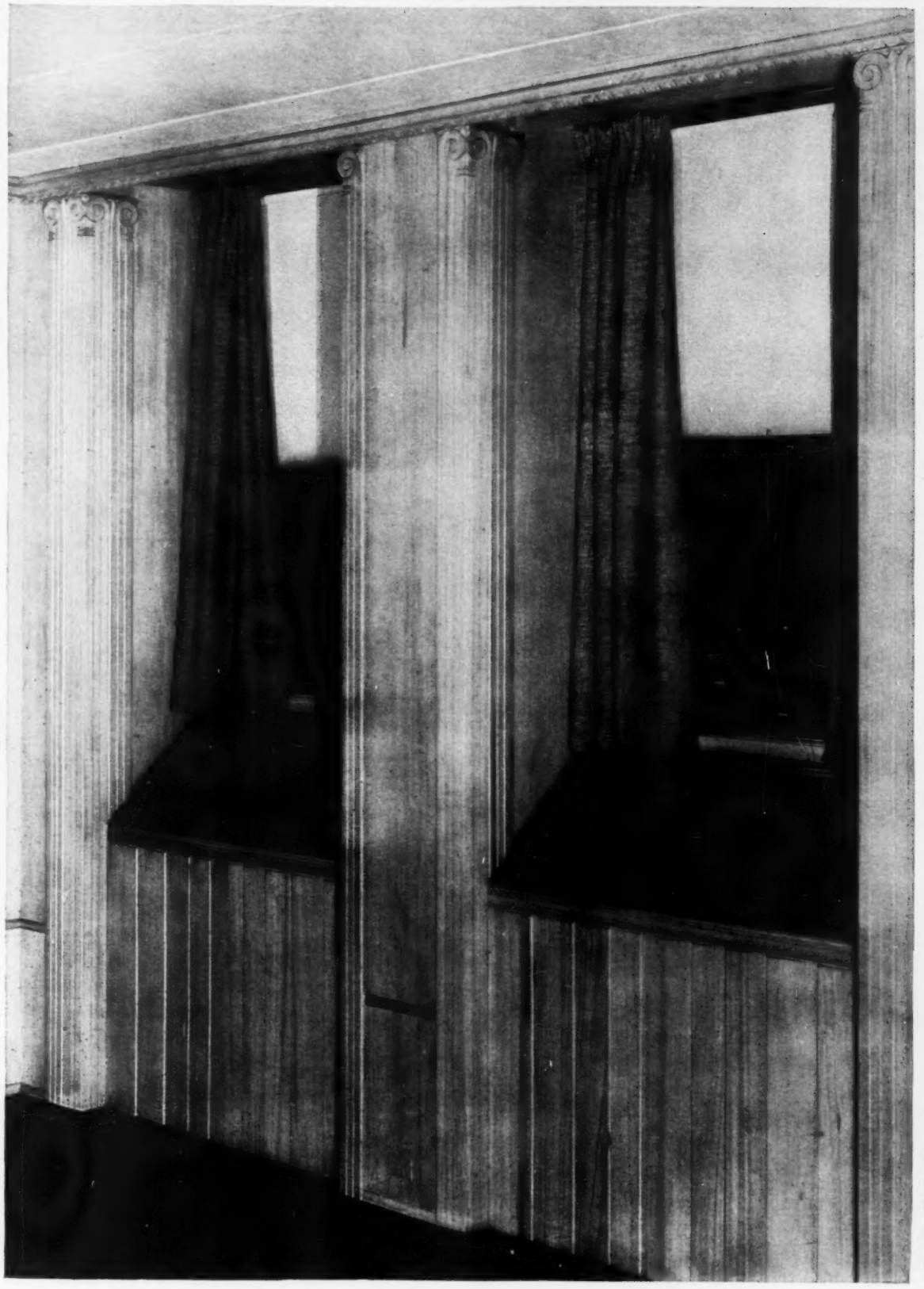
Please send Lady Seymour's free booklet to:

H-2

Name_____

Address_____

Dealer's Name_____



SMART INTERIORS ARE *NATURAL* NOW

Interiors built of natural grain Tidewater Red Cypress have a rare beauty that never goes stale.

Ten years from now, when fashions in interiors have veered from "a cubist's dream" to some unpredictable modified expression of art, you will still love the delicate grain of this warmly-rich lumber.

America's greatest architects and decorators are enthusiastic in their acclaim of Tidewater Red Cypress. They advise you to use it for paneling, doors, window frames, base boards, molding, and wherever else you want the charm of a beautiful wood.

Tidewater Red Cypress is versatile—it may be left in its natural state, waxed, varnished, stained, sand-etched, painted or charred, always with delightful effects.

A BOOK OF INTERIORS—SENT FREE

Send for this book of really charming interiors. Photographs of rooms designed with a pleasing freshness of idea by famous architects have been selected to show you a variety of interesting interiors.

Write to the Southern Cypress Manufacturers Association, Dept. H. G. 1, Jacksonville, Florida.

Specify

TIDEWATER RED CYPRESS

THE WOOD ETERNAL

STAIRWAY, WALL BASE, DOOR TRIM AND FLOOR BORDER ARE OF MARBLE.

Discriminating Taste Dictates--

QUITE naturally discriminating folk decide in favor of excellence . . . . particularly in the appointments of their homes . . . . where taste and refinement are evidenced by the use of materials above the ordinary.

Such a material, for instance, as marble . . . . with its rich perfection of surface sheen and almost limitless colorings, the inimitable product of Nature's laboratories. The pride afforded by a marble stairway, marble wall base . . . . or perhaps an entrance hall wainscoted with marble . . . . comes as much from the beauty and distinction of the material as from ultimate economy.

The initial cost of marble is very reasonable, and its upkeep is practically nil.

There is No Substitute for Marble

We have recently published a series of books giving valuable facts and interesting suggestions about the use of marble in various buildings, including home and garden treatments.

Write us, naming the type of marble work you are interested in and a copy of the book covering that subject will be sent you immediately—without charge, of course. Address Department 6-X.

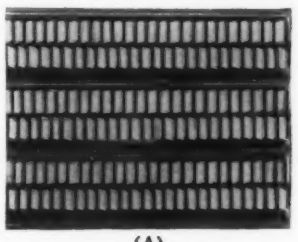
NATIONAL ASSOCIATION *of* MARBLE DEALERS
ROCKEFELLER BUILDING - CLEVELAND, OHIO

Passing Years will not mar the Beauty of these walls!

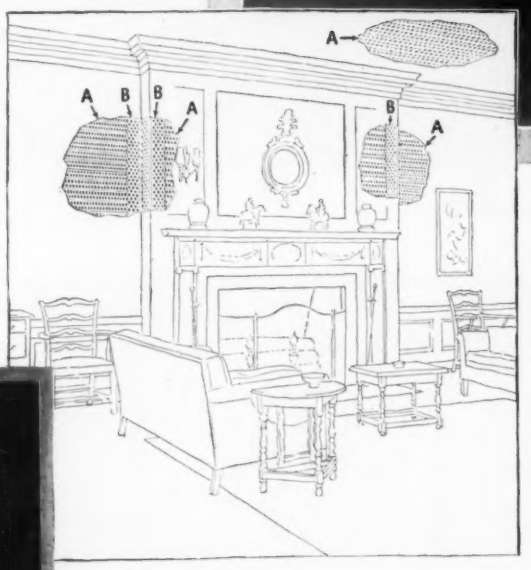
NO single item in the planning of a home deserves more careful consideration than the construction of walls and ceilings. Eighty-five per cent of the visible interior is made up of plastered surfaces. Obviously if the charm of rooms is to be permanent . . . walls and ceilings must be preserved against the effects of age. They must be kept free from plaster cracks and defects.

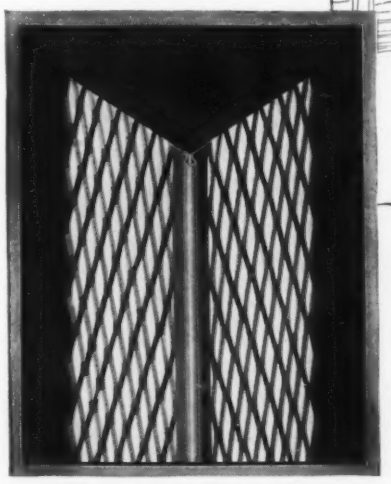
The use of *Milcor* metal building products is the greatest assurance that the interior beauty of a home will be preserved. The reinforcement of steel provided by *Milcor* Stay-Rib Metal Lath prevents the development of cracks and other plaster blemishes. This steel lath is an ideal plaster base . . . strong . . . permanent and fire safe. *Milcor* Expansion Corner Beads preserve the trim sharpness of corners . . . They absorb unavoidable shocks and prevent chipping.

Lounge of Milwaukee Country Club.
Architects: Fitzhugh Scott, *Milwaukee*, Roger H. Bullard, *New York City*.



(A)
Milcor Stay-Rib Metal Lath has unusual strength and rigidity. Its design . . . a *Milcor* patent . . . affords the maximum protection against plaster cracks.





(B)
Milcor Expansion Corner Bead is distinguished by its expanded metal wings . . . This feature . . . a *Milcor* patent . . . permits a perfect grip upon the plaster and prevents chipping off from unavoidable abuse.

In the diagram you will see exactly how *Milcor* Fireproof Products are used to preserve beauty at each vulnerable point . . . Stay-Rib Metal Lath in the walls and ceilings . . . Expansion Corner Bead on corners. Ask your architect about *Milcor* Products . . . No home is too large or too small to warrant this finer construction.

MILWAUKEE CORRUGATING COMPANY
1429 Burnham Street Milwaukee, Wisconsin

Copper Alloy Steel — ARMCO Ingot Iron — Save with Steel

MILCOR PRODUCTS

Branches: Chicago, Ill., Kansas City, Mo., La Crosse, Wis.
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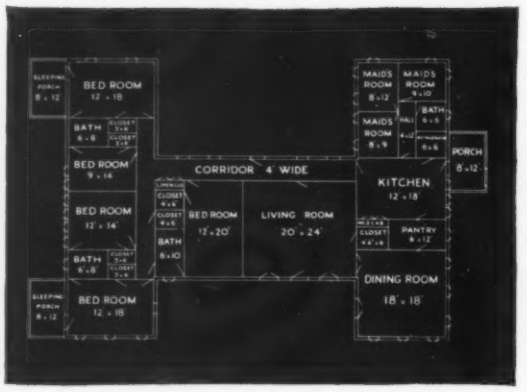
YOUR OWN VACATION HOME— AS YOU LIKE IT, WHEN YOU WANT IT

SEND FOR THE HODGSON BOOKLET, PICK A FLOOR-PLAN TO SUIT YOUR NEEDS—AND ALMOST BEFORE YOU KNOW IT YOUR SUMMER HOME IS UP, AND READY TO OCCUPY

MANY PEOPLE of means have chosen Hodgson Houses—sometimes for auxiliary use on large estates; more often for summer homes at some favorite lake or mountain resort. Why? Because they could be erected quickly, and be ready when wanted. All the bother of building, the fussing with contractors, estimates, litter and confusion were eliminated. And they recognized in the simplicity of line and contour architectural beauty which has the good taste to blend with its environment.

We build your Hodgson House in sections; ship it to you ready to erect. In a few days, aided by a little local labor, you're ready to move in. If you haven't time to supervise the erecting of your home, we will gladly send a Hodgson construction foreman who will attend to all details.

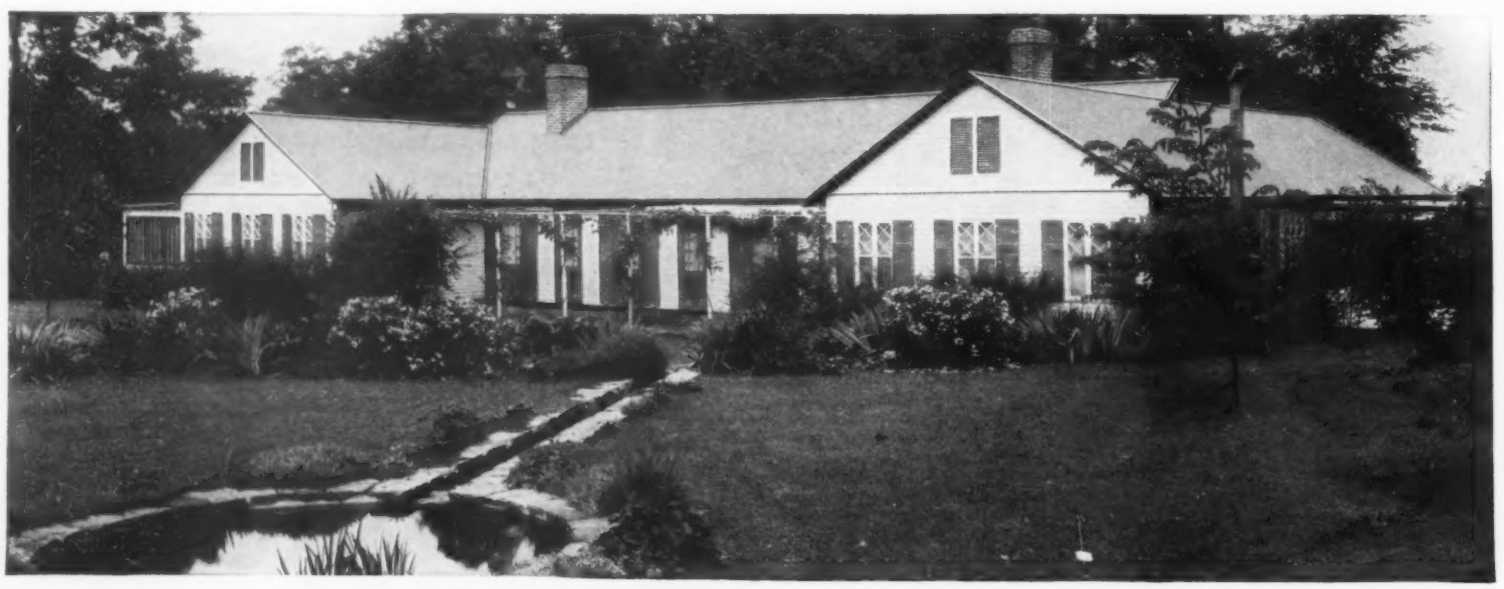

BED ROOM 12 × 18
BATH 6 × 8
BED ROOM 9 × 14
BED ROOM 12 × 14
BATH 6 × 8
BED ROOM 12 × 18
CORRIDOR 4' WIDE
BED ROOM 12 × 20
LIVING ROOM 20 × 24
BATH 6 × 10
MAIDS ROOM 8 × 12
MAIDS ROOM 9 × 10
MAIDS ROOM 8 × 9
BATH 6 × 8
PORCH 8 × 12
KITCHEN 12 × 18
PANTRY 8 × 12
DINING ROOM 18 × 18

THIS IS THE FLOOR-PLAN *of the Hodgson House shown here. Our booklet also pictures and prices furnishings and lawn and garden equipment—bird houses, dog kennels, arbors, picket fences, poultry-houses, etc.*

Hodgson Houses everywhere have withstood the worst storms for years. Only the best materials are used. Selected weather-proof cedar and Douglas fir. The sections are held rigidly together by heavy key bolts. Details are carefully finished. Solid brass hardware, glass doorknobs, spacious closets.

Write today for our free illustrated book G, giving pictures, plans, prices, complete information. Address E. F. Hodgson Company, 1108 Commonwealth Ave., Boston, Mass., or 6 East 39th Street, New York City. Florida branch at Bradenton.

HODGSON *Houses*



If RUST can invade your home . . . *then sooner or later* expect TROUBLE

RUST—you know it . . . the reddish tinge . . . the tell-tale mark of destruction. It should be kept out of your home to avoid the many upkeep costs it causes.

Where does rust make its appearance? Wherever metal comes in contact with water; in the water supply system (water pipes, the hot water storage tank, etc.); in the outside sheet metal work (gutters, rain-pipes and roof flashings); also screens and hardware.

Rusted water pipe generally clogs with rust—slows up the flow to a trickle—discolors the water red—may spring leaks—has to be repaired and eventually replaced. *Anaconda Brass Pipe, however, cannot rust.*

Rusted gutters and rain-pipes are ugly . . . mar the walls . . . must be repaired and repainted frequently. Eventually they rust out. *But sheet metal work when made of 99.9% pure Anaconda Copper can't rust.*

How soon does rust come? An authoritative investigation shows that in the average home rustable metals cause trouble within seven years after installation.

How can you avoid rust? This can be easily done by using Anaconda Copper, Brass and Bronze. Thousands of home-owners are finding that these rustless metals *save* upkeep and replacement costs.

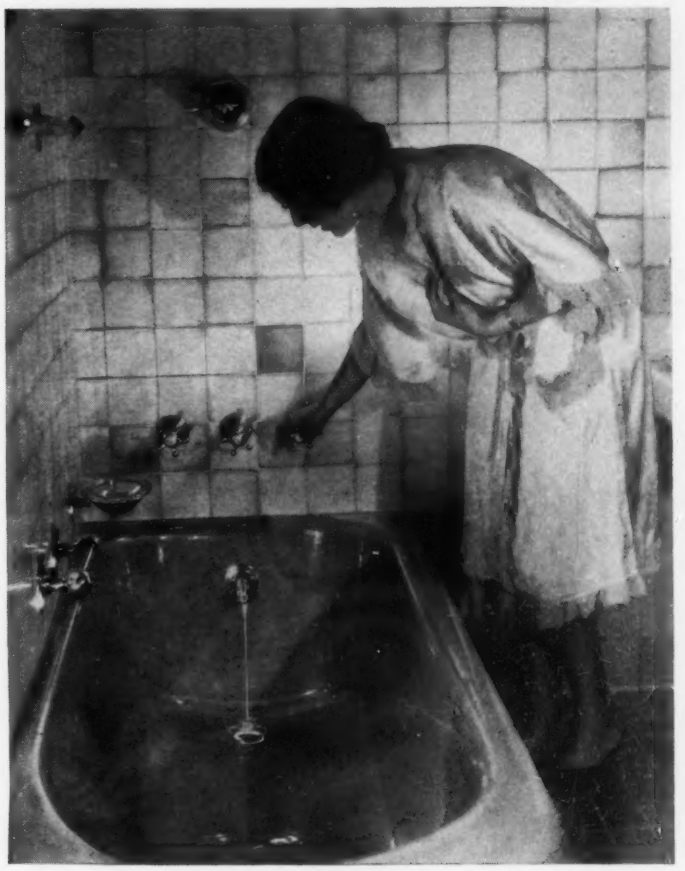
It is estimated that the annual rust loss in American homes is five times greater than the fire loss. For the usual one-family house, which is not rust-proofed, this rust expense will amount to an average of $60.00 annually.

Facts about Anaconda Copper and Brass

Anaconda products reach the consumer after the most careful supervision from mine to finished product. A single organization of more than a hundred years' experience is responsible for every step.

Every length of Anaconda Brass Pipe is tested. For your protection it is stamped "Anaconda"—your guarantee of lasting service. Leading plumbing contractors everywhere install it.

Every sheet of Anaconda Copper is also stamped "Anaconda." It is 99.9% pure. It can't rust.



No one likes to wait for their tub and then get rusty, discolored water besides. Anaconda Brass Pipe installed in the plumbing system is permanent protection against rust and its attendant troubles.

It's easy to avoid this... a common sight in every community . . . replacing rusted gutters and rain-pipes with copper.

In the situation pictured above there was a box gutter lined with rustable metal connecting to rain-pipes of copper. Though installed only about seven years the gutter was badly rusted, while the copper rain-pipes were in perfect condition. New shingles had to be laid over the old gutter and Anaconda Copper gutters installed.

This replacement expense can be avoided in new construction by installing gutters, rain-pipes and flashings made of Anaconda Copper.

Mrs. J. J. O'Donnell and her four children in front of her new home. At the right is the interesting story of why the house was rust-proofed.

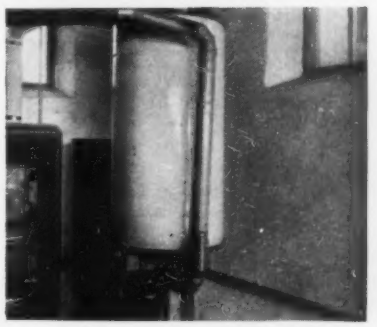
Children in the home—an important reason for using brass pipe

Consider the experience of Mrs. J. J. O'Donnell of Mt. Vernon, N. Y., who says:

"When we moved to our first house (in Pelham) we knew very little about rust. But we soon learned.

"First we noticed that the water pressure was growing weaker. Soon we couldn't draw water in the bathroom if a faucet was open in the kitchen or laundry. Rust was clogging the pipes. Then the water took on a reddish brown color that grew worse and worse. And I never had clear water to serve at table . . .

"It was vital that the children have pure, clear water—and plenty of it—always. So in the house we built we decided to have Anaconda Brass Pipe. Since then we haven't seen a sign or trace of rust and the water is always pure and fresh."



A rust-proof hot water storage tank is an important part of any plumbing installation. If made of rustable metal its life is limited. All too often homeowners have found their cellars flooded from a leaking storage tank.

The use of copper hot water storage tanks is constantly increasing. Leading manufacturers of plumbing appliances are prepared to supply these tanks in sizes for the average home. Anaconda Copper cannot rust . . . it provides a permanent installation . . . it saves money.

—†—

Get this valuable booklet!—"The Home Owners' Fact Book," by Roger Whitman. It not only tells you how to rust-proof your house, but deals with important facts concerning planning, financing and maintenance costs. It will be sent upon receipt of 25 cents. Address—The American Brass Company, General Offices, Waterbury, Conn.

ANACONDA COPPER & BRASS

CAN'T RUST ANACONDA SAVES MONEY

from mine to consumer

CRITTALL CASEMENTS

WINDOWS THAT BRING A GIFT OF BEAUTY

Residence of J. M. McGonigal Esq., Atlanta, Georgia. Owen James Southwell, Architect

CRITTALL CASEMENTS lend the dignity of their own simple grace—the old-world charm of their quaint, leaded panes —to enrich the beauty of your home.

With this gift of beauty also come practical advantages. Crittall Casements furnish a simple motif for a delightful scheme of interior decoration. They are easy to clean; simply screened. They shut tight against raging storms and open wide to summer's wandering breezes.

There is a Crittall Casement for every type of home, large or small.

Stanwin Casements are available with screens by Crittall

Crittall Universal Casements are custom-built to the specifications of your own architect, while Stanwin and Norman Casements are available in a wide range of standardized designs and sizes.

Ask your architect to show you pages A1131 to A1200 in Sweet's Architectural Catalogue and explain how suitably Crittall Casements can be utilized in the home you are planning. Or, if you would first investigate for yourself, we will be glad to send you our fully illustrated catalogue.

CRITTALL CASEMENT WINDOW CO.
10961 HERN AVENUE , DETROIT, MICHIGAN

STANWIN CASEMENTS , , , NORMAN CASEMENTS , , , UNIVERSAL CASEMENTS

ANNOUNCING

THE DAWN OF A NEW DAY IN INSULATION

TODAY, throughout America, a new name is heard . . . a new symbol is introduced . . . a new insulating board appears. Weatherwood!* . . . *the only insulating board fabricated from hardwood.* The Weathercock! . . . *symbol of insulation efficiency.*

Weatherwood! . . . *full half-inch* insulation . . . staunch barrier between the extremes of unfriendly weather and family comfort. And Weatherwood Lath! . . . perfected insulating plaster base, with the exclusive tongue and groove joint.

Weatherwood! New in heat-stopping value . . . new in structural strength . . . new in sound resistance . . . new in all the advantages of strong, enduring *hardwood* fibers fabricated into insulating building board and lath. Weatherwood and Weatherwood Lath are being supplied to retail lumber dealers as rapidly as possible. Ask your dealer about them, or write for booklet, "The *New* Standard of Home Construction," with sample.

CHICAGO MILL AND LUMBER CORPORATION
111 WEST WASHINGTON STREET
CHICAGO . . . ILLINOIS

Weatherwood

INSULATES AGAINST UNFRIENDLY WEATHER

*Weatherwood is manufactured and marketed exclusively by the Chicago Mill and Lumber Corporation. This company, with its vast research and strong financial resources, has been engaged in the production and distribution of lumber products, wood packages and commercial veneers since 1881—almost 50 years. Its resources include tremendous acreage of hardwood in the states of Louisiana, Arkansas, Mississippi, and North Carolina, sufficient to insure a perpetual supply of raw material for Weatherwood, strategically located for economical and quick distribution. Together with its associated companies, it enjoys an annual business in excess of thirty million dollars. Over fifty-seven thousand freight cars were utilized last year to fill the transportation requirements of this business.

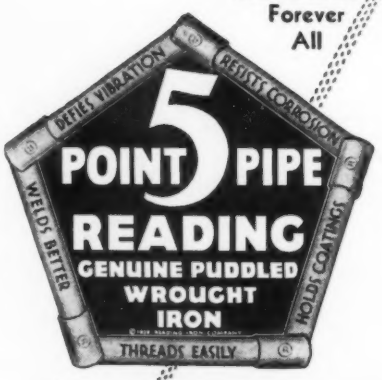
TIME — THAT TOUGH OLD TESTER . . . . . .

Meet Time, that tough old tester of everything in this world. To his aid, Time calls all the destructive forces of the universe. Years come and go, storms and sunshine, heat and cold make their accustomed rounds, while Time, the tough old tester, broods over the world, trying, testing, destroying.

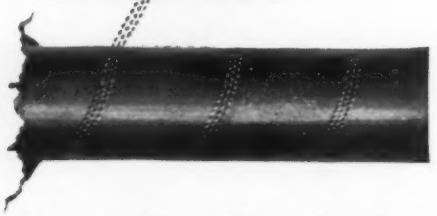
Yet Time, the tough old tester, does have his troubles. Against one material devised by man, Time and his serving-men falter. That material is genuine Puddled Wrought Iron—the metal of which Reading 5-Point Pipe is made. Watch for the next coming of Time, the tough old tester—you can learn about pipe from him.

READING IRON COMPANY, Reading, Pennsylvania

For Your Protection, This Indented Spiral Forever All Marks



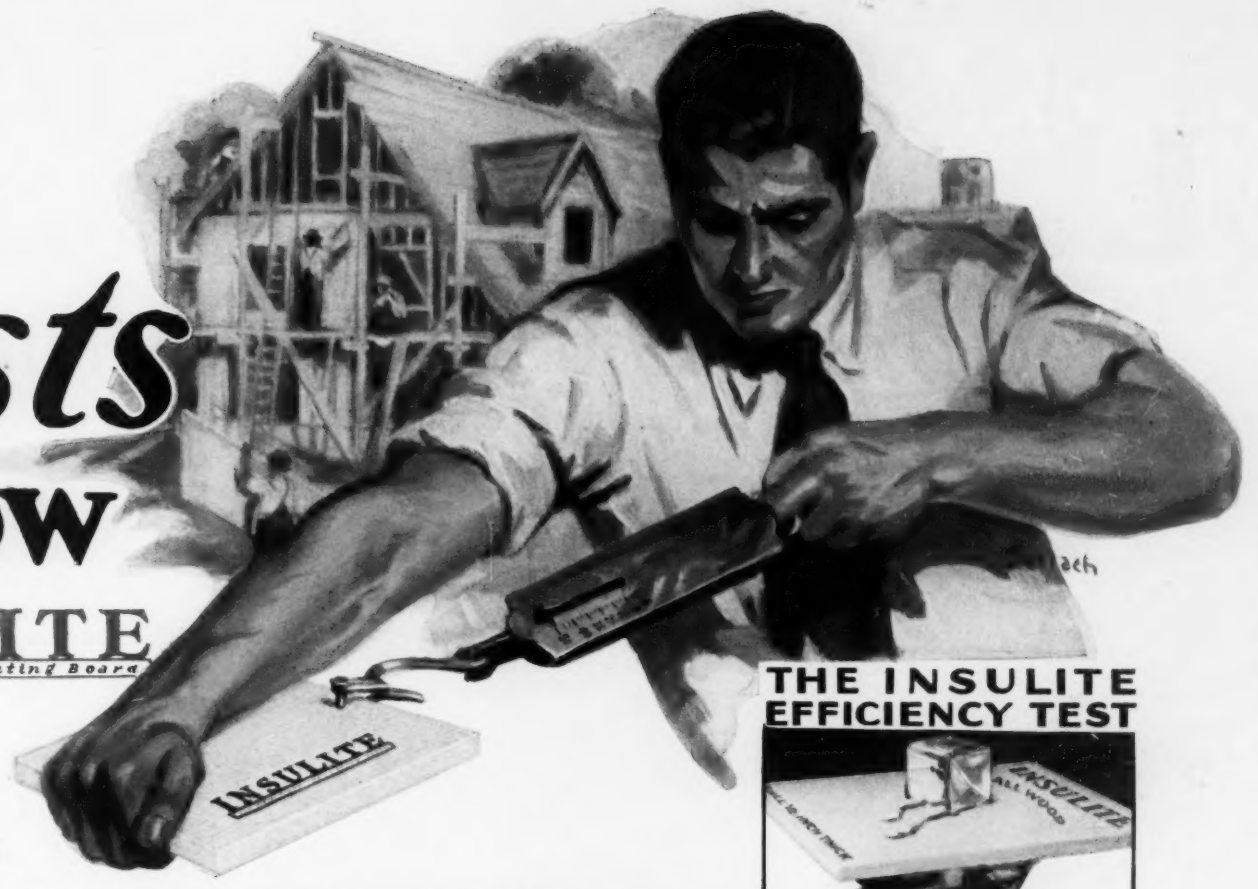
GENUINE PUDDLED WROUGHT IRON
READING PIPE
DIAMETERS RANGING FROM 1/8 TO 20 INCHES



Science and Invention Have Never Found a Satisfactory Substitute for Genuine Puddled Wrought Iron

Tests SHOW INSULITE

the Wood-Fiber Insulating Board



is 14% STRONGER as well as

IT'S human nature, when you build, to want not only the most efficient but the strongest insulation on the market.

In a recent laboratory test, the four best known insulating boards were tested for strength, and Insulite proved to be 14% stronger than any.

And not only is Insulite stronger, but—full ½ inch thick—gives 12½% more efficient insulation than ordinary 7/16" insulating boards.

In addition to the above superiorities, the use of Insulite—because it is in large size units—cuts labor costs sometimes as much as 50%.

Insulite, chemically treated to resist moisture and not subject to deterioration, is not only economical in its first cost, because it eliminates the need of building paper and other non-insulating materials, but it also pays dividends in fuel savings through all the years to come.

Insulite used as sheathing has several times the bracing strength of lumber horizontally applied, and as a plaster base grips plaster with twice the strength of wood lath.

When you build, of course you're going to use insulation. Talk to your architect, contractor, or lumber dealer—they know Insulite. Write us for a copy of our free booklet, "Increasing Home Enjoyment," and a sample of Insulite to use in making the tests explained in the next column.

THE INSULITE EFFICIENCY TEST

FULL ½ INCH THICK MEANS

12½% MORE EFFICIENT INSULATION

THAN ORDINARY 7/16" INSULATING BOARDS

MAKE THESE TWO TESTS

Prove Insulite's greater strength by driving a nail a half inch in from the edge and through a board of Insulite. Loop a strong cord around the nail and, with hand scales, see how much greater pull is required to tear the nail through Insulite than through any other insulation boards similarly tested.

Prove Insulite's greater efficiency. Place a cube of ice on a piece of Insulite over an automatic electric iron set at hot. See how long it takes the heat to penetrate the Insulite and melt the ice. Make the same test with any other insulation boards. Then we know you will specify Insulite.

THE INSULITE COMPANY

1200 Builders Exchange, Dept. 21A

Minneapolis, Minnesota

OFFICES IN ALL PRINCIPAL CITIES

Insulate with INSULITE

the Wood-Fiber Insulating Board

Last year twice as many people turned from cold doubt to this certain warmth

Each year the sun turns his back upon our ice and snow and travels south—unjealous of the millions of tiny fires men light in imitation of his certain heat. Each year one tried and proven method of creating automatic heat grows greater—unjealous of a myriad of other heating methods.

It has been thirty-three years since the Spencer Magazine Feed Heater first brought automatic heat to homes. Yet time and the best engineering skill could do no more than refine the Spencer Heater. Its scientific principle stands today, as then, as the method of creating heat with an automatic fuel feed that depends neither upon machines nor fallible human skill.

Spencer automatic fuel feed is controlled by two scientific laws—the law of nature that makes fire burn up, and the law of gravitation that makes fuel roll down. These two laws have been in operation since the world began.

Even at first the Spencer added economy to convenience. The Spencer saves as much as half the annual fuel bill because it burns the small size fuels—especially anthracite—which are low in cost because ordinary heaters will not burn them satisfactorily. With the growing use of coke in Spencer Heaters, greater thousands have discovered that they can have clean and automatic heat in homes, at no more cost than with older and less healthful heating methods.

Constant improvement in design, greater savings and convenience have marked the progress of the Spencer Heater. As it grew in value it was accepted by more and more people. With increased distribution, its cost has continued to come down.

New styles, new sizes of Spencer Heaters are being introduced this year in both cast iron sectional and steel tubular types. They bring to the owner of any home, from cottage to mansion, the same savings and convenience that they provide in schools, churches, apartment houses and other large buildings.

This is an age of progress. Ingenious new devices appear so fast that many are obsolete before they are established. Inventive genius has created many devices designed to reduce the cost and trouble of securing heat. Last year twice as many people as ever before turned their backs upon cold doubt and new experiments, to accept the proven Spencer principle. This overwhelming public acceptance, better than any words, commends the convenience and economy of the Spencer, to new thousands of home owners to whom lowered prices now make it available. SPENCER HEATER COMPANY, WILLIAMSPORT, PA. *Division of Lycoming Manufacturing Company.*

SPENCER
Magazine Feed
HEATERS
for steam, vapor or hot water

And in the halls of Solomon—"*the great court around about . . . was with a row of cedar beams.*"
—I Kings 7-12

Many nations seek it

. . . . . *this rare cream-white wood* closely resembling the Cedars of Lebanon

The colonial home of G. E. Eastman, Hollywood, California, reveals the refined detail easily achieved with Port Orford Cedar. All woodwork, mantel, columns, panels and mouldings are of this rare wood. William Lee Woollett, Architect.

AS IN THE DAYS OF Solomon, cedars from the mountain of Lebanon were sought for temple and palace, so today a species closely resembling this ancient wood—Port Orford Cedar—is prized for America's finest homes.

Like the cedars of old, Port Orford Cedar grows in one secluded spot. Its giant trees tower only along a narrow strip of the Pacific Coast. Like this ancient wood it is widely sought. Britain builds it into her magnificent public buildings, the staterooms of her palatial liners, the interiors of her finest manor homes.

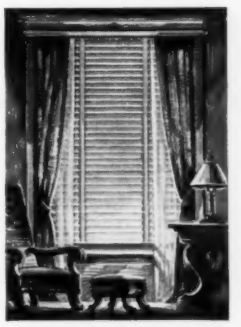
Japan reveres it! For Port Orford Cedar closely resembles the now carefully guarded "hinoki," sacred wood of Japan. So precious is Port Orford Cedar that Japanese craftsmen carefully saw by hand the boards for palace and shrine.

Now, the beautiful homes of Southern California are acquainting all America with the merits of this fine wood.

Silken smooth . . . this rare wood enamels to a beautiful porcelain-like luster. Cream-white, it stains to great warmth and richness. Homogeneous of fiber, it machines easily to special designs. Impervious to weathering, decay resisting, Port Orford Cedar is also ideal for entrances, porch columns, pergolas, garden furniture. Also available in panels of standard sizes and thicknesses for stained interiors and cabinet work.

Consult your architect about this rare wood. Mail the coupon today to our exclusive sales agents, Dant & Russell, Inc., 1101 Porter Bldg., Portland, Oregon, for the beautifully illustrated free booklet, "Fine Interiors with Port Orford Cedar."

PORT ORFORD CEDAR PRODUCTS COMPANY
MARSHFIELD, OREGON



In Venetian Blinds, leading decorators are finding a beautiful and decorative way to control light and ventilation. Home owners appreciate the mellow, diffused light they cast throughout a room. Made of cream-white, enduring Port Orford Cedar, they are eminently satisfactory. They never warp; and may be stained, lacquered or enameled to any shade. Send for illustrated, free booklet, "Venetian Blinds, a New Note in Interior Decoration."

PORT ORFORD CEDAR

The Aristocrat of Woods

DANT & RUSSELL, INC., 1101 Porter Bldg., Portland, Oregon.

Please send me booklet "Fine Interiors with Port Orford Cedar," also "Venetian Blinds, a New Note in Interior Decoration."

NAME _____

ADDRESS _____

NAME OF ARCHITECT _____

DIRECTORY *of* DECORATION & FINE ARTS

Good Taste . . .

is never out of fashion

That is why an interior by Ruth Campbell Bigelow remains a source of aesthetic pleasure for years to come.

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CONTEMPORARY glass and rugs were the subject of the second International Exhibition of Industrial Art on view during recent months at the Metropolitan Museum of Art, New York City. The considerable attention given recently to decorative and table glass makes this exhibition especially timely. Glass, permeated with bubbles, enameled, engraved, or deeply etched, is offered in varied, unique and altogether pleasing forms, created with a skill and technique almost beyond belief. Simplicity of line and delicacy of treatment are the keynotes struck by such masters of the French school as René Lalique, Maurice Marinot, Henri Navarre, Jean Luce, Marcel Goupy, and the Compagnie des Cristalleries de Baccarat, as well as the craftsmen of Sweden, Austria, Czechoslovakia, Germany, Italy and England. Germany has produced many simple free-blown glass pieces for table use. Venetian craftsmen have evolved new forms and effects by employing varying thicknesses, surface textures and tints. Even in England, while much of the glass still reflects the heaviness of former days, lighter and more graceful forms are now contributed by the Russel Workshops at Broadway. America is represented by many fine pieces, especially from the Corning Glass Works and The Tiffany Studios.

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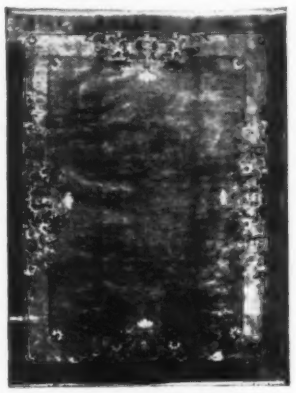

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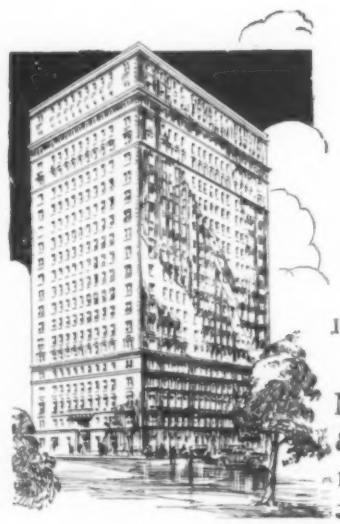

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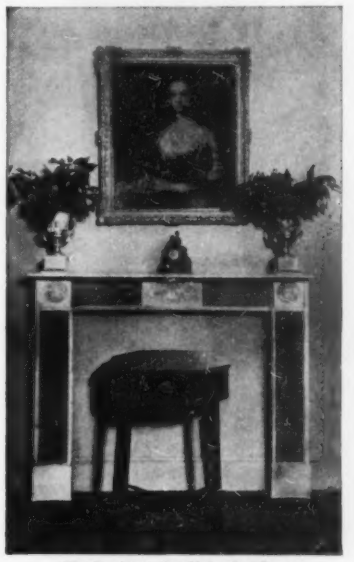
(*Continued on page* 37)



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is the wall paper No. 951 by Paul Dumas, Paris. Suggestive of the Dutch sampler style, is colorful and refreshingly different. An old mill and a peasant girl, a plump shepherd piping as he rests on the grassy bank, are figures of droll charm.

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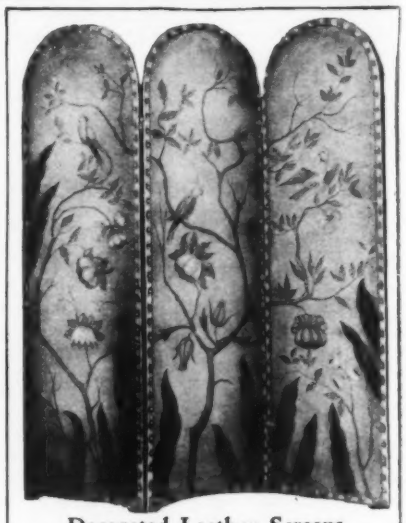

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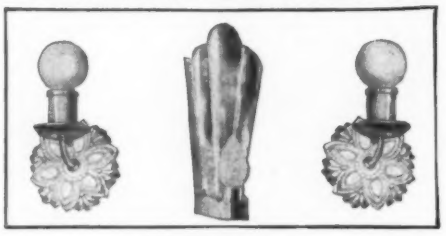

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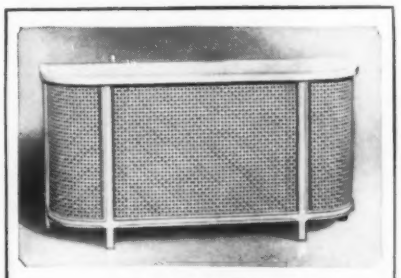

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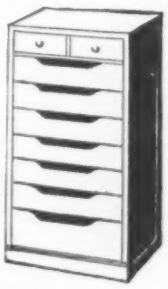

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(*Continued on page* 39)

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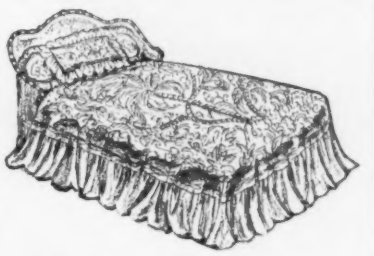

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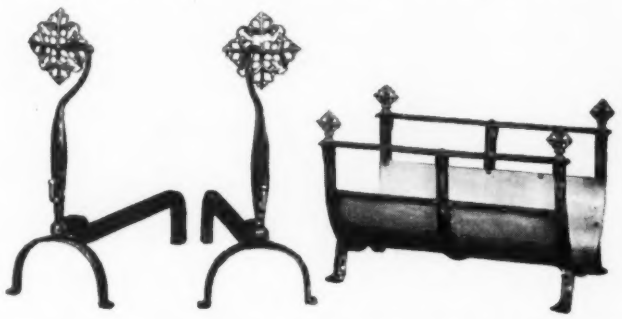

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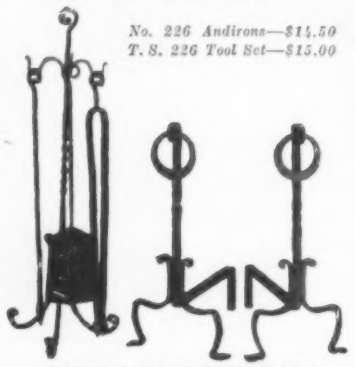

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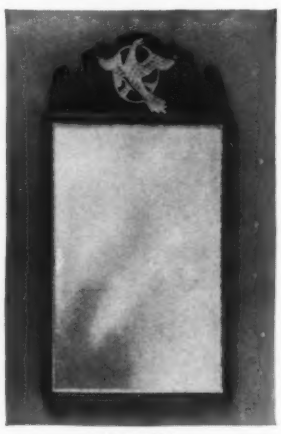

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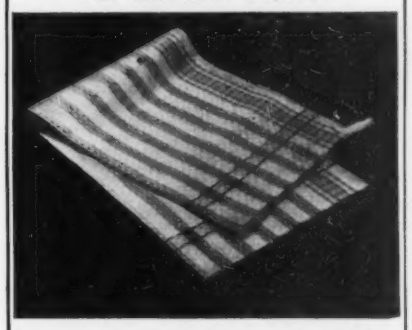

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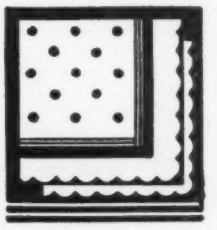

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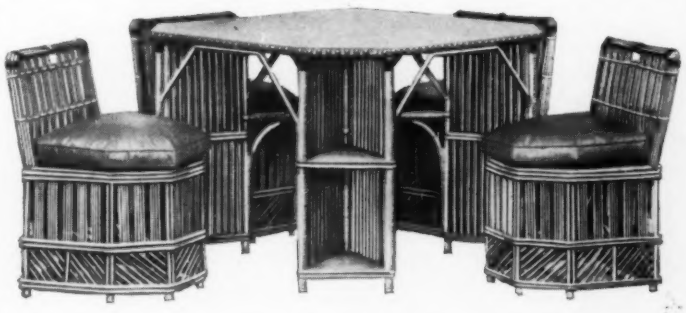
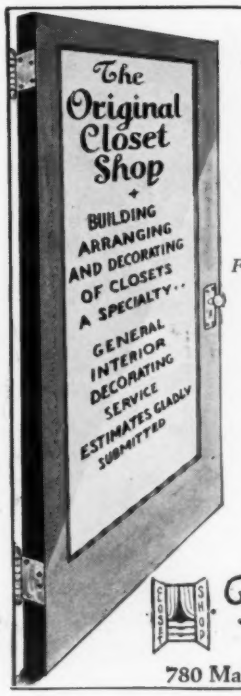


We are makers of Wicker furniture for the new Breakers of Palm Beach, The Dunes Club, Miami Biltmore, Hotel Commodore and most prominent clubs and homes in America.

Free illustrated catalog *Freight prepaid to Florida*

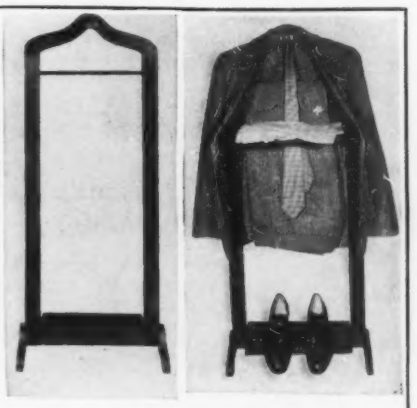
Grand Central Wicker Shop Inc.
217 East 42 St. New York


The Original Closet Shop
BUILDING ARRANGING AND DECORATING OF CLOSETS A SPECIALTY
GENERAL INTERIOR DECORATING SERVICE
ESTIMATES GLADLY SUBMITTED

Man's Valet Stand

From the Original Closet Shop

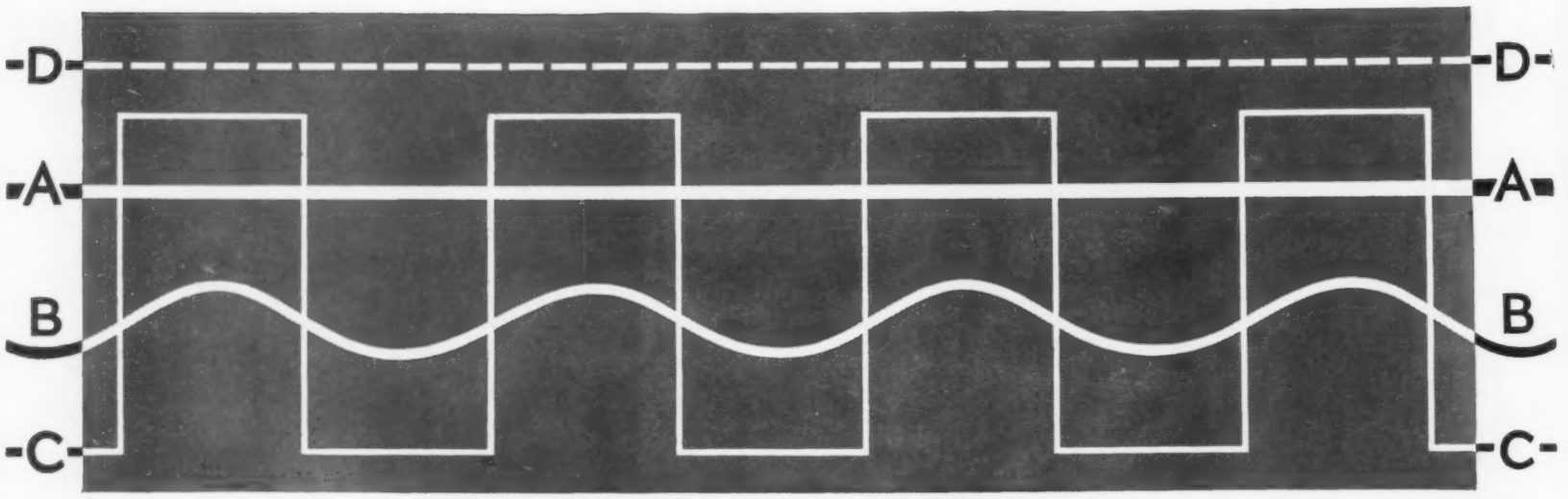
Patent Applied for



COMPACT and practical. Coat goes over top; trousers on bar; shoes below on shelf. Made with shelf for shirts (as shown at right) or without. There's a peg for ties, too. Painted or stained wood, $15—genuine mahogany or walnut, $35. Crated for out of town—$2.50 express collect extra.

The **CLOSET** *Shop*
Mrs George Herzog
780 Madison Avenue, New York *Rhinelander 3440*

How to get the Best Results *with an* Oil Burner



Has your boiler an "AA" or a "DD" capacity line? One wastes money for you and the other saves it. Do you know which and why?

THE change from a coal fire to an oil or gas burner does not give you a new system of heating. It merely permits you to use a different kind of fuel.

The prime factor upon which the comfort and cost of heating depend, remains what it always has been—the efficiency of the boiler.

A boiler's efficiency is measured by its capacity to absorb heat. A given boiler can absorb just so many heat units per minute and no more.

Obviously there is a relation between the number of heat units the boiler can absorb per minute, and the number of heat units the fire gives off per minute. If the fire exceeds the boiler's capacity, the excess heat units are wasted up the chimney.

An oil or gas fire gives off heat at a much faster rate than a coal fire. They put a far greater tax upon the boiler's efficiency.

The line AA on the chart represents the boiler's fixed capacity to absorb heat units.

The line BB represents the slightly varying number of heat units the coal fire gives off per minute, as the fire speeds up and slows down with the opening and closing of the draughts. (Assuming that the boiler operates efficiently with coal the line BB never rises above the line AA).

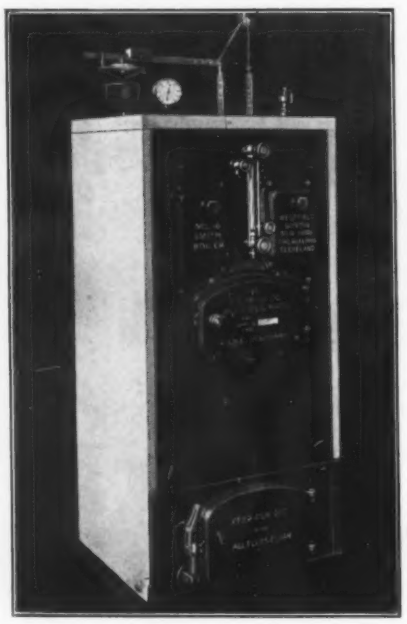
The line CC represents the sharply varying number of heat units the oil or gas fire gives off per minute, as the thermostat turns it on full blast or shuts it entirely off. Its peaks rise not only far above the peaks of the coal fire (line BB) but also far above the capacity line of the boiler (line AA). The areas above the line AA are wasted heat units. They go up the chimney.

While the above is a suppositional case to illustrate a point, it does not at all exaggerate the all too common condition.

In order to get the best results with an oil or gas burner, you should have a boiler whose heat-absorbing capacity line is at the level DD on the chart.

You pay for your boiler only once. But you pay for coal, oil or gas year after year—that's where the saving can be made.

The New Smith "16" and the "24", "34", and "44" Mills Boilers are Specially Adapted for Oil or Gas



A boiler's heat absorbing capacity depends upon how many square inches of Fire Surface it has. The New Smith "16" has a larger number than any other boiler made of the same grate area—enough to absorb more heat than your home will ever need. In addition it has a fire brick lining, usually found only in the most efficiently operated industrial boilers. This lining increases the amount of heat by radiation in the fire pot, and prolongs the shut-off periods of the oil or gas burner. It has been estimated that this alone accounts for a 10 percent saving in fuel cost.

Send for Free Booklets

Ask your Architect, Heating Engineer or Heating Contractor about the New Smith "16". Send for free booklets, "The Smith 16", and, "Does it Pay To Install an Oil Burner". Use coupon below. The H. B. Smith Company, Westfield, Mass.

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Dept. K-26, WESTFIELD, MASS.

Gentlemen: Without cost or obligation to me, please send me a copy of each of your two booklets.

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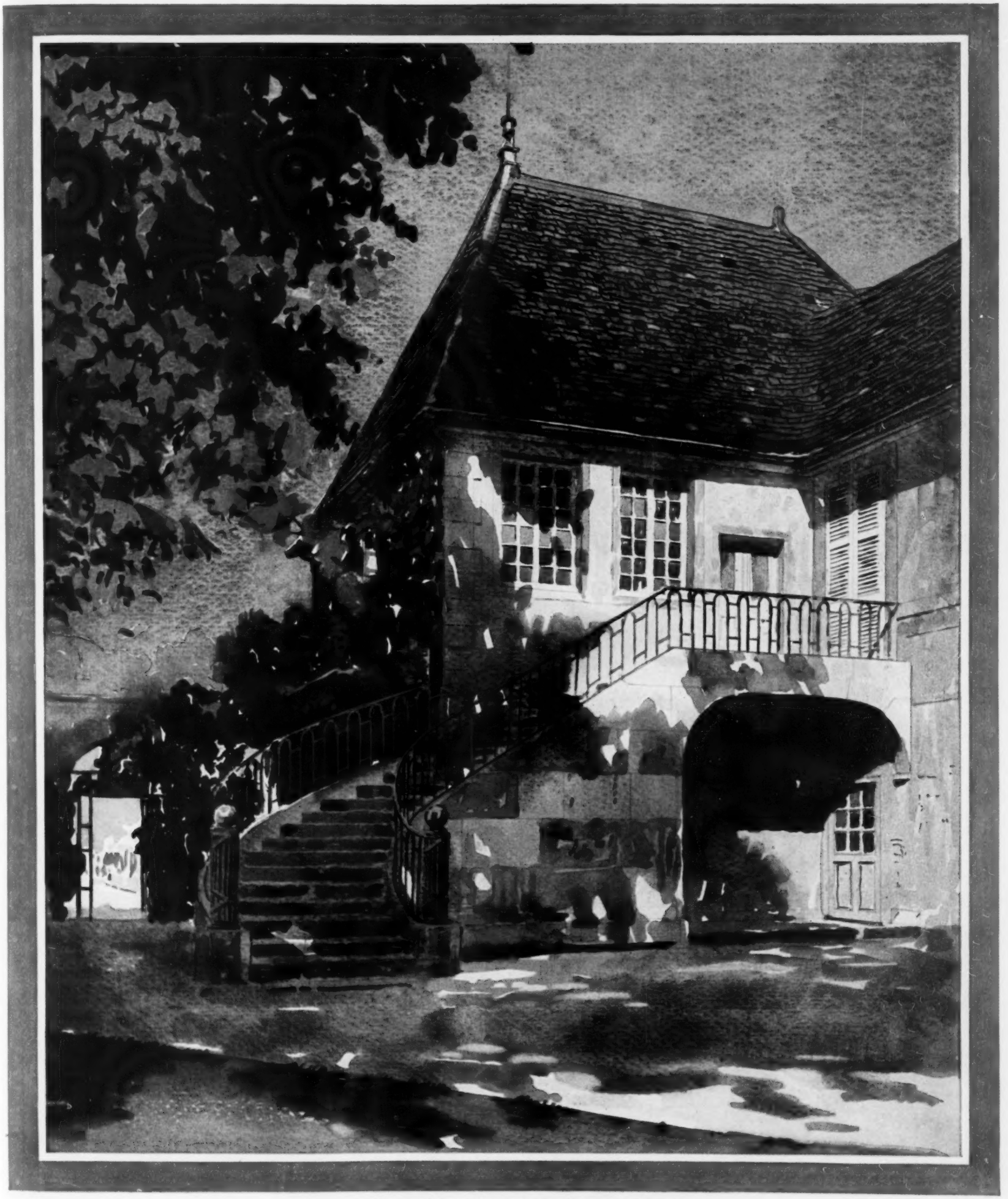
BOILERS & RADIATORS
Used in fine homes and buildings since 1860

The H. B. Smith Boilers for steam, hot water and vapor heating; radiators; and hot water supply boilers; for every type and size of private home, office building, factory and public building.



The same mellow quality of this ancient tile roof at Dijon, France, can be obtained here in America by using IMPERIAL Roofing Tiles.

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Makers of IMPERIAL Roofing Tiles

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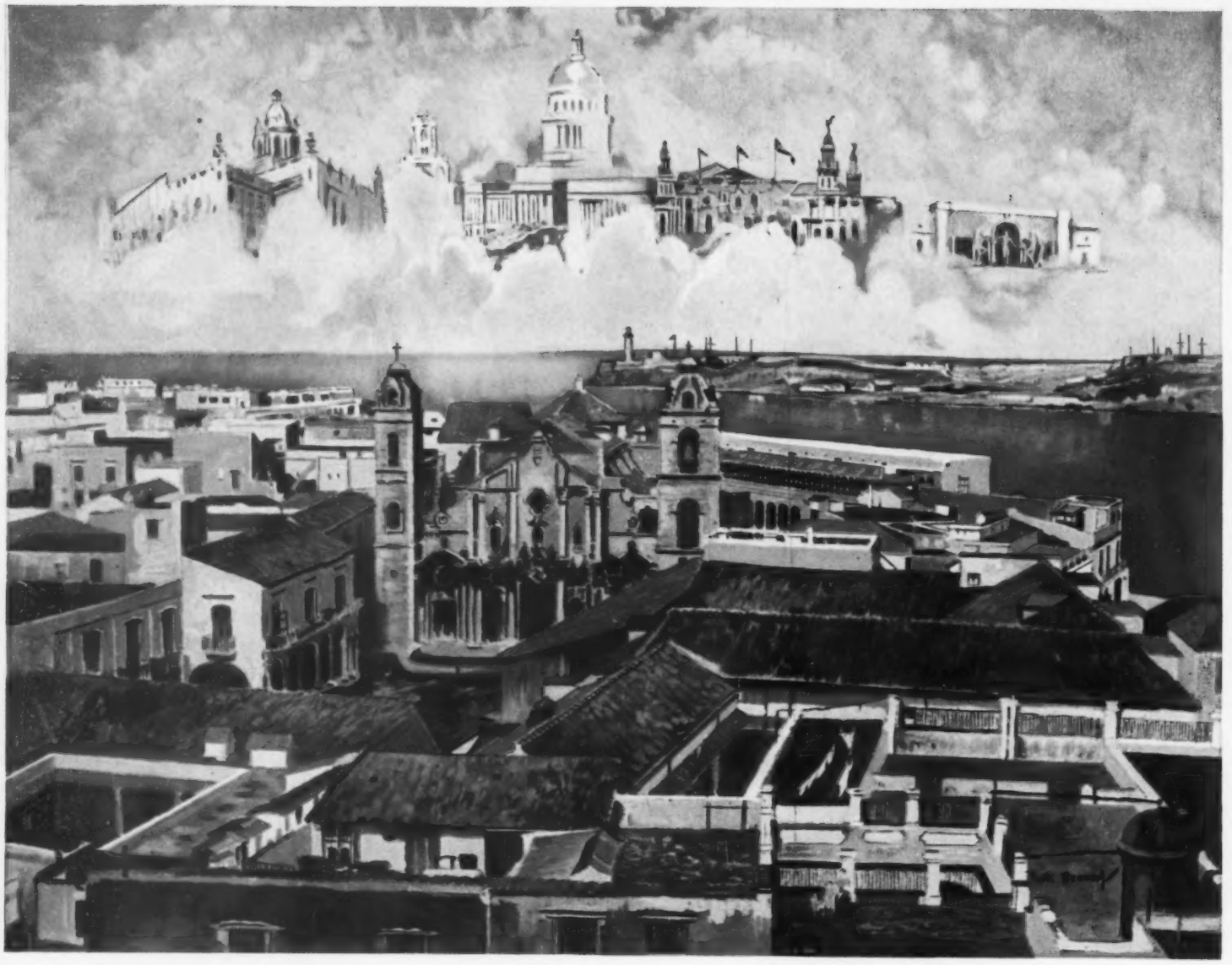

HAVANA

Here's a trip abroad— not far away—not too expensive

WHEN winter comes, the travel-wise start south to Cuba. Here is the one winter resort that offers *all* the modern pastimes of the complete vacation—*all* the benefits of travel in the bracing sunshine of the tropics—with the *added* pleasure of an environment that is entirely foreign—different—a thorough change of scene which means a complete getting away from the things you're tired of and carries you into the sparkle, the freedom, the fascinating atmosphere of the old world. They're coming now, by train, by highway, by water, by air, to the pleasures, interests and new experiences that characterize life in the "Pearl of the Antilles" . . . Havana has earned the reputation, "Smartest City in America." Out of this setting of early Spanish colonialism has risen an ultra-modern metropolis of a half-million persons, with every facility for accommodating and entertaining its throngs of winter vacationists . . . deluxe hotels, grand boulevards, the gorgeous Prado, imposing theatres, the opera, broad highways radiating for hundreds of miles through scenic countryside . . . brilliant social life and every summer sport that's known to the out-of-doors—golf, tennis, polo, hunting — deep sea fishing, swimming, yachting — horse racing at famous Oriental Park—the thrilling jai-a-lai, fastest of games—every sport doubly delightful in entrancing tropical surroundings. Here are new health and new pleasures for all the family. (There are good American day and boarding schools for the children). Here is mental rejuvenation for the American business man; a radical change from the routine . . . an opportunity to *forget* business, with the comfortable knowledge that if need be, a phone call can bring him quickly back to his desk. Plan *now* to visit Cuba, the *ultimate* in winter travel! : : :

For information, etc., any travel bureau, any railroad, steamship or airplane ticket office or the National Tourist Commission, Havana.

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Remuda Ranch. Distinctive—warm all winter. Cowboys, horses, tennis, nine hole practice golf course. Ask Mr. Foster Travel Service for booklet.

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Biltmore Hotel. Finest and largest. Suburban. In grove of grand old trees on ocean beach with mountains at back. All outdoor sports. American Plan.

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DISTRICT OF COLUMBIA

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The Carlton, 16th at K. St. N. W. The most distinctive & perfectly appointed hotel in the Nation's Capital. Rooms $4-10; suites $15 up.

The Dodge Hotel. (Formerly Grace Dodge Hotel). Continuing same ownership, management, policies of administrations and high standard of service.

Wardman Park Hotel. Away from noise and congestion, convenient to down-town. Single rooms with bath $5.00, double rooms, bath $8.00.

The Willard. "The Hotel of the Presidents"—convenient to everything worth while in the Nation's Capital. Delightful atmosphere. Unexcelled cuisine.

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The Osceola-Gramatan and Cottages. The perfect winter home for persons of culture and refinement, adjoining the Daytona golf links. Excellent cuisine.

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Hotel Royal Palm. Open Jan. 4. 18-hole golf course. Swimming pool. Every room with bath. J. L. Nelson, Manager.

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McAllister. Miami's largest modern fireproof Hotel. Overlooking park and Biscayne Bay. European Plan. Leonard K. Thomson, Manager.

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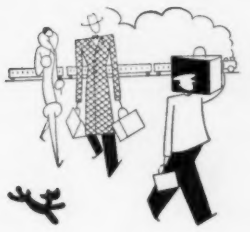
St. Petersburg

Hotel Albermarle. Overlooking Tampa Bay—St. Petersburg's distinctive hotel of quality and genuine hospitality. American Plan. Recreation features.



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We suggest California or Florida for eternal sunshine (actually!), sparkling beaches, fishing, swimming, golf, dancing or just plain loafing. But if you insist on a desert, a horse, and some Hopi villages that need exploring, why not try a ranch in Arizona or New Mexico? If time is short, nothing will buck you up more than some riding, or a few rounds of golf among the pine mountains at Asheville.

Look through these pages now for the finest hotels in the world, and write to them for rates and reservations.

FLORIDA (CONT)

St. Petersburg (Cont)

Jungle Hotel. A beautiful American Plan hotel. Private 18 hole golf course and beach club. Each room with bath. John F. Hynes, Manager.

Hotel Sereno. On Tampa Bay. Modern. Fireproof. Each room with bath. Four golf courses. Exceptional music. Cuisine and service of the highest order.

Viney Park Hotel. Faces glorious Tampa Bay. Sun-bathing . . . every recreational feature. Booklet, C. E. Kennedy, Managing Director.

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Davis Islands Hotels. The Mirasol, The Palmerin, The Biscayne. Wide range of rates. Own swimming pool, golf course, tennis courts. Booklet.

Winter Haven

Spring Lake Terrace Hotel. In ridge section among myriads of lakes. Near Bok Singing Tower. Nov. to May. $8-12.

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Seminole Hotel. Location, surroundings, equipment, service, cuisine, clientele, golf unsurpassed in central Florida. Distinctive residential community.

GEORGIA

Augusta

Forrest Hills-Ricker Hotel. Golf; grass greens in mid-south all winter. Opens December to April. Special December-January rates.

LOUISIANA

New Orleans

New St. Charles. In the heart of the city. Noted for refinement and real service. Always recommended to ladies traveling alone. Reasonable rates.

MAINE

Bethel

Bethel Inn. Noted for its individuality and perfect appointments. The rates are reasonable. Nine-hole golf course on our own grounds.

Portland

Lafayette Hotel. A delightful tourist hotel where friends meet friends enroute, and enjoy excellent service at fair rates. European Plan.

MARYLAND

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Hotel Alexander. At the "Gateway to the South". New, complete, distinctive. 175 rooms, each with bath. Bachelor Floor.

MASSACHUSETTS

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Hotel Somerset. Commonwealth Ave. A dignified home for transient and permanent guests. Central yet quiet. Room with bath $3.50 up. E. P.

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Hotel Beaconsfield. Homelike atmosphere. Convenient to down-town Boston. Away from congestion & noise. Residential section. Rooms $5.50 up. Garage.

MINNESOTA

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The Curtis Hotel. Easily accessible to Minnesota's beautiful lake region. 825 rooms, each with private bath. Write for descriptive folder.

MISSOURI

St. Louis

Hotel Coronado. Smartly near the centre of things. Distinguished St. Louis visitors almost invariably choose this famous hotel. Four noted restaurants.

The New Jefferson. "Where the world meets St. Louis". An hotel of International Repute. Famous cuisine. 800 rooms with bath, from $3.00.

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Colton Manor. Atlantic City's new unique hotel. Sea water baths. Marine sun deck. From $7. day, American Plan; $4. European Plan. C. V. Meeks.

The President. Atlantic City's newest boardwalk hotel. Sea water swimming pool. Marine sun deck. Charles D. Boughton, Manager.

NEW MEXICO

Santa Fé

The Bishop's Lodge. Finest mountain resort. Horses, Golf, Outdoor Sports. Cliff Dwellings, Indian Pueblos. Dry healthful climate. Homelike atmosphere.

Hacienda de Los Cerros. At the mouth of Santa Fé Canyon. Altitude—7000 feet. A modern all-year resort. All western recreations.

NEW YORK

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The Mark Twain. Elmira's new million dollar hotel. Every modern convenience. 200 rooms each with bath. Garage in connection.

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The Langdon. 5th Ave. & 56th St. Small exclusive hotel with intimate personal service. Attractive appointments; furnished or unfurnished. Transients.

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Paso del Norte. El Paso's best and largest hotel. All-year golf and other sports, we secure privileges. See interesting Juarez, Mexico.

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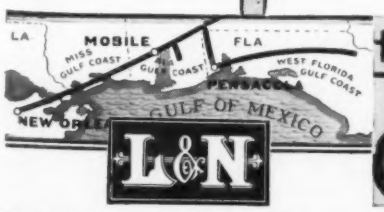

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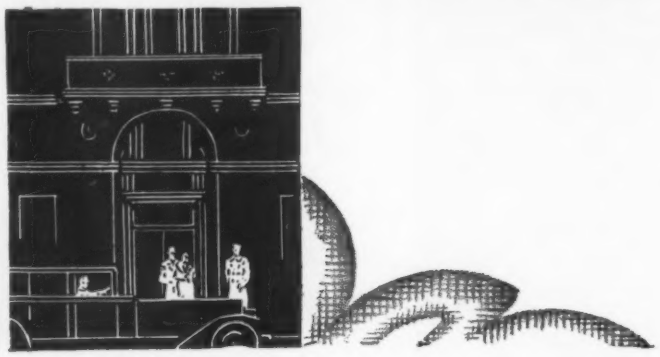

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HARRY TAIT, Managing Director

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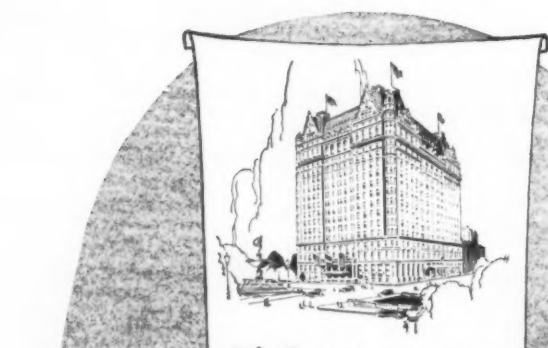

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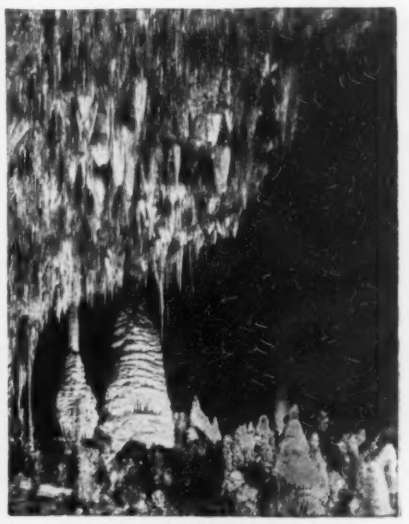

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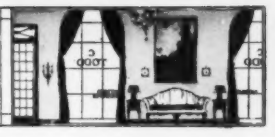

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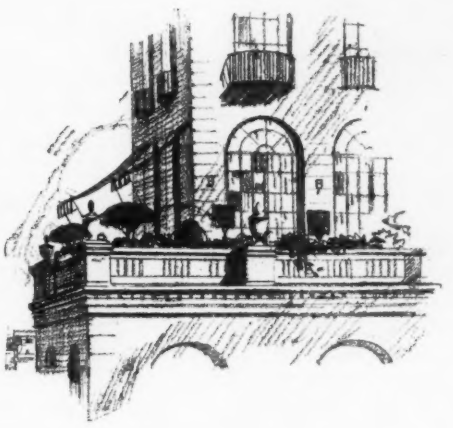

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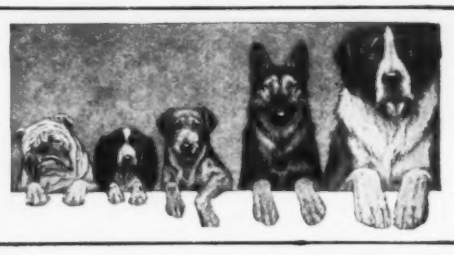

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Little Skipper

Robert. S. Lemmon

THEY often call him that because his name, Schipperke, is Flemish for Little Captain. Also, I suspect, because each of the canal-boats which ply the dyked waters of his native Belgium has its vociferous little black bundle of energy bustling here and there and bossing things as though he were, in point of actual fact, the skipper of the craft. Even though there be those who contend that the name *schipperke* is a corruption of *schapocke*, maining "little shepherd," and that its owner is really related to the much larger Belgian Sheepdog, I'm going to stick to the "little skipper" explanation. Whether you do or not, the pronunciation is the same: *Skeeper-ker.*

What is he like, this small black rascal from Flanders? That is no easy question to answer unless, indeed, one gives the unsatisfactory response that he is precisely like a Schipperke. The best summation of his character that I know of appeared forty-odd years ago in a Continental periodical:

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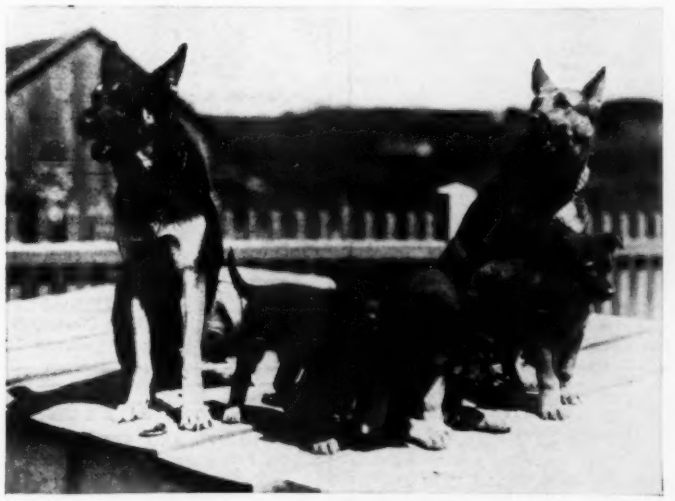

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of Flanders; he does not soil the deck nor does he upset furniture with his tail, having none."

Though the advent of the Schipperke into this country was quite recent (it was not until the spring of 1929 that the Schipperke Club of America was formed), the breed can be traced far back. In the early days it was apparently in especial favor among Flemish shoemakers, some of whom organized a Schipperke show on certain Sundays about the year 1690. From long ago, too, comes the legend of the origin of the dog's lack of tail—the story of a quarrel between two shoemakers, one of whom avenged himself by cutting off the tail of the other's cherished Schipperke, with the result that ever since the breed has been characterized by taillessness. In point of actual fact, occasionally a Schipperke pup is born without a tail, but generally speaking he has to be docked.

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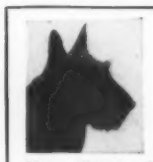

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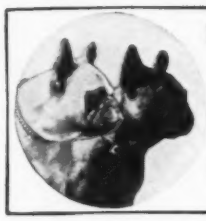

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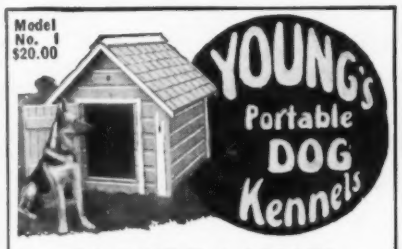

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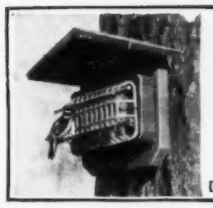

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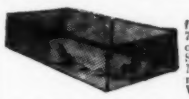

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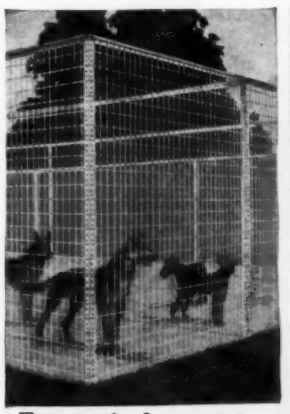

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January 1930

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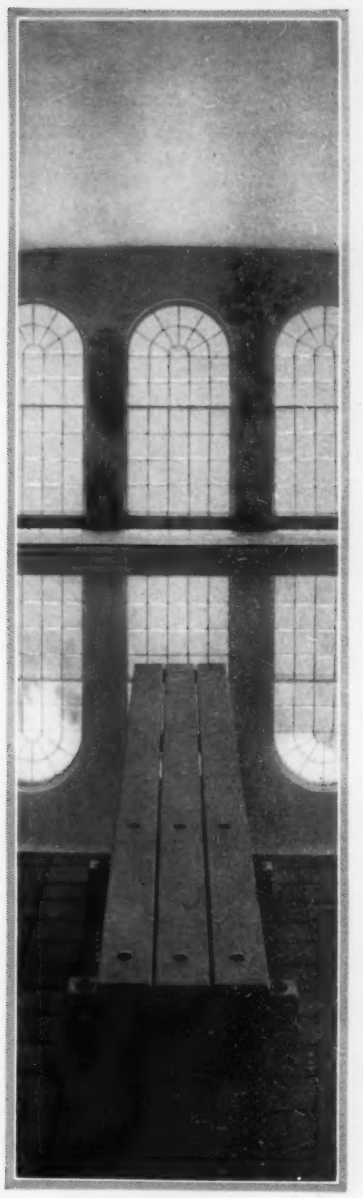

THE further residential architecture progresses in these days of curtailed leisure time and increased realization of the need for relaxation, the greater its tendency to evolve houses that are complete units. Time was when the billiard room was about the only tangible effort to provide for indoor sport at home; today we have gymnasiums, golf courses and swimming pools under the same roofs beneath which we sleep. Are we learning better to evaluate exercise, or merely becoming more ingenious in providing for it?

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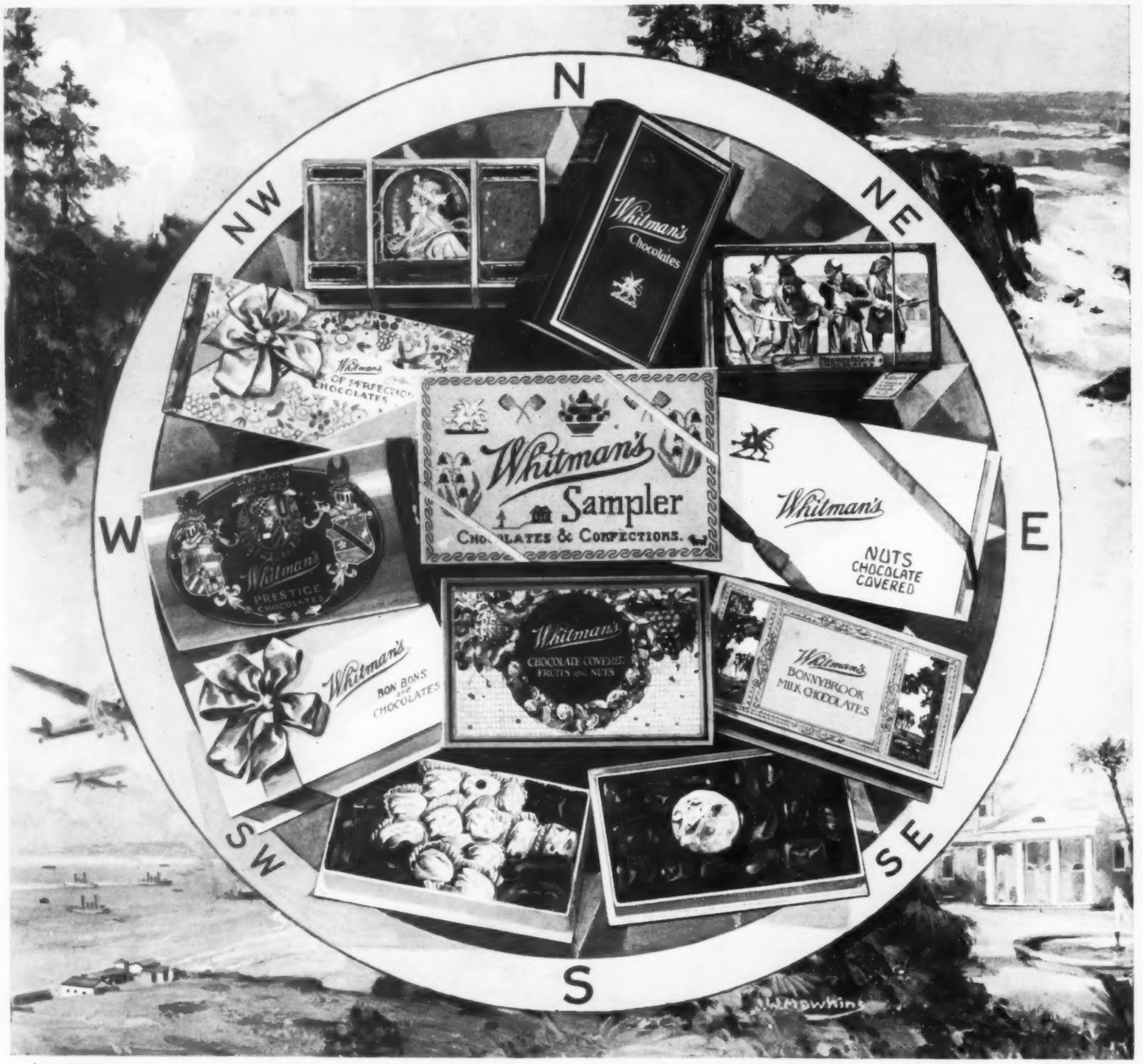

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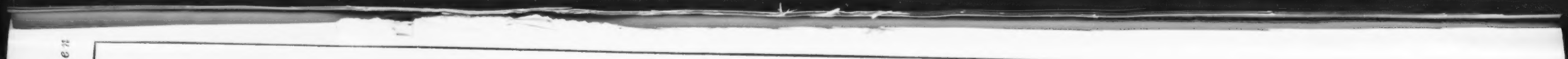


The BULLETIN BOARD

ARCHITECTS AS DECORATORS. The old adage about the shoemaker sticking to his last applies to practically every profession, and especially is it applicable to those architects who try also to be decorators. During the course of every month hundreds of photographs of houses cross this desk. In many cases the exterior architecture is superb: much of it is publishable. In some the architectural backgrounds of the rooms—the paneling and such, which fall within the architect's province—are splendidly conceived and executed. But when the average architect attempts to be a decorator—the net result is appalling.

It is scarcely conceivable that all architects are endowed with all the talents and all the taste. It is not to be expected that they should be as good decorators as they are architects. Why, then, do they try it? Why do they hold to the strange notion that Heaven has endowed them with more talents than those who are especially trained? Why do many of them conceive themselves as more knowing on such matters than the men and women who have spent years studying and practising decoration? If they are impelled by an unconquerable desire to create complete and harmonious ensembles, then they should first learn something about decorating.

AN UNDIETING ERA. The 18th Century in England produced not only some of the most important designers of furniture but also some of the most stupendous consumers of food and drink that the world has ever known. The quantities of good things appearing on their tables would appall us of this dieting age. The average menu for one meal would last most of us a week. Nor was this gourmandizing the habit of the better classes alone: the English farmer of that age also ate stupendously when he had a chance. Witness this lachrymose record—one culled from many such to be found in the parish registers of old English country churches: "James Parson, who oft hath eat a shoulder of Mutton and a peck of Hasty Pudding at a Time, which caused his Death, buried March 27, 1744. Age 35."

Of course there was a dreary sameness about the cuisine. Salt pork and mutton products of the farm were the main country dishes in winter, and each spring the countryside was "bled" and dosed itself with all manner of homemade and quack nostrums against the scurvy and other ailments attendant on their diet. The English people of that era were a race of food drunkards. However, temperance was effected not by legislation, but by the coming of the newspaper, by better roads which brought in more varied foods and by general education. It soon got out of fashion to eat a shoulder of Mutton and a peck of Hasty Pudding at a time.

IN SPAIN

ORANGE BLOSSOMS

Nothing so embalms the air
As the orange blossoms blooming where
The hot sun draws their perfume out,
The slow winds festoon it about.

Too heavy-sweet these scented blooms
For docile brides and jaunty grooms.
With the white, honied flowers instead
Are lovers fitly garlanded.

II

THE BLUE FLOWERS

Blue flowers in patches by a road in Spain:
Bluer than water cupped in cleft red rock,
Bluer than evening sky washed with spring rain.

Blue flowers singly bent on thin green stems,
Rippling frail petals in a sharp spring wind,
Flashing in the sun like faceted blue gems.

Enchanting flowers, withered now
in Spain,
A blue enchantment in my heart
remain.

III

BALCONIES

Up and down the steep house walls
Climb balconies all vine-embowered.
From earthen pots geraniums fall,
Sharp-scented pinks grow, many-flowered.

Bright clothes hang on slack-stretched lines,
Swing and flap in the heavy air.
Caged birds sing in the shadowy vines,
Cats stretch and yawn in the sunny glare.

Children and grandmothers chatter and sleep;
Young girls lean to their lovers' sigh;
Mothers scold and scrub and sweep;
Suds splash down on the passers-by.

—KATE BREWSTER

HALESIA. Among the trees or large shrubs that are pleasant to the eye in spring along the Atlantic seaboard is the family of Halesia—Silverbells or Snowdrop Tree. The history of their name is interesting. It was given by John Ellis (1710-1766), probably brother of Henry Ellis, Governor of Georgia, to a group of plants he discovered there, in honor of Dr. Stephen Hales, a humble English country parson who in his day was one of England's leading scientists. He is rated the last of the great naturalists to lay the foundations of vegetable physiology. Dr. Hales also served as one of Oglethorpe's trustees for Georgia.

His understudy and neighbor was Gilbert White, author of *The Natural History of Selborne*, which all good gardeners read. White writes of him: "The last act of benevolence in which I saw him employed was at his rectory of Farringdon, the next parish to this, where I found him in the street with his paint-pot before him, and much busied in painting white with his own hand the tops of the foot-path posts, that his neighbors might not be injured by running against them in the dark."

What a delightful person he must have been! What a dear old soul to name the tree for! We will remember him and his post-tops when again the Halesias hang out their silver bells.

THE OMNIPOTENCE OF EDITORS. There has grown up a legend among the devoted readers of magazines that editors are endowed with universal knowledge. Far be it from us to disillusion our faithful followers, although it is true that within five minutes previous to writing this paragraph its scrivening editor was asked—and answered satisfactorily—the following questions: who would he suggest to design a line of Modernistic silverware, where to buy a certain kind of Italian cheese, the address of a good retoucher of photographs and a color scheme for a nursery, on the request of an expectant aunt who hoped it was going to be a girl. Yes, part of an editor's job is to answer just such questions as that, and the staff of House & Garden devotes a goodly share of each day working over diverse problems of architecture, decoration and gardening.

Since some of our readers are not aware of this service, we herewith proclaim it from the housetops. In fact, we are often tempted to devote an entire issue just to questions and answers in the hope that the solutions might help a vast number.

A SUPERIOR GADGET. At last a knotty problem has been solved. For years we have been dodging trying to name those decorative objects one occasionally finds in costly gardens—those complicated astronomical skeleton spheres swung on the oblique axis of an arrow. Sometimes we have called them Astrolabes (which they aren't), sometimes Armillary Spheres (which comes closer) and sometimes Orrerys (which sounds mysterious). A dip into dictionaries set us straight.

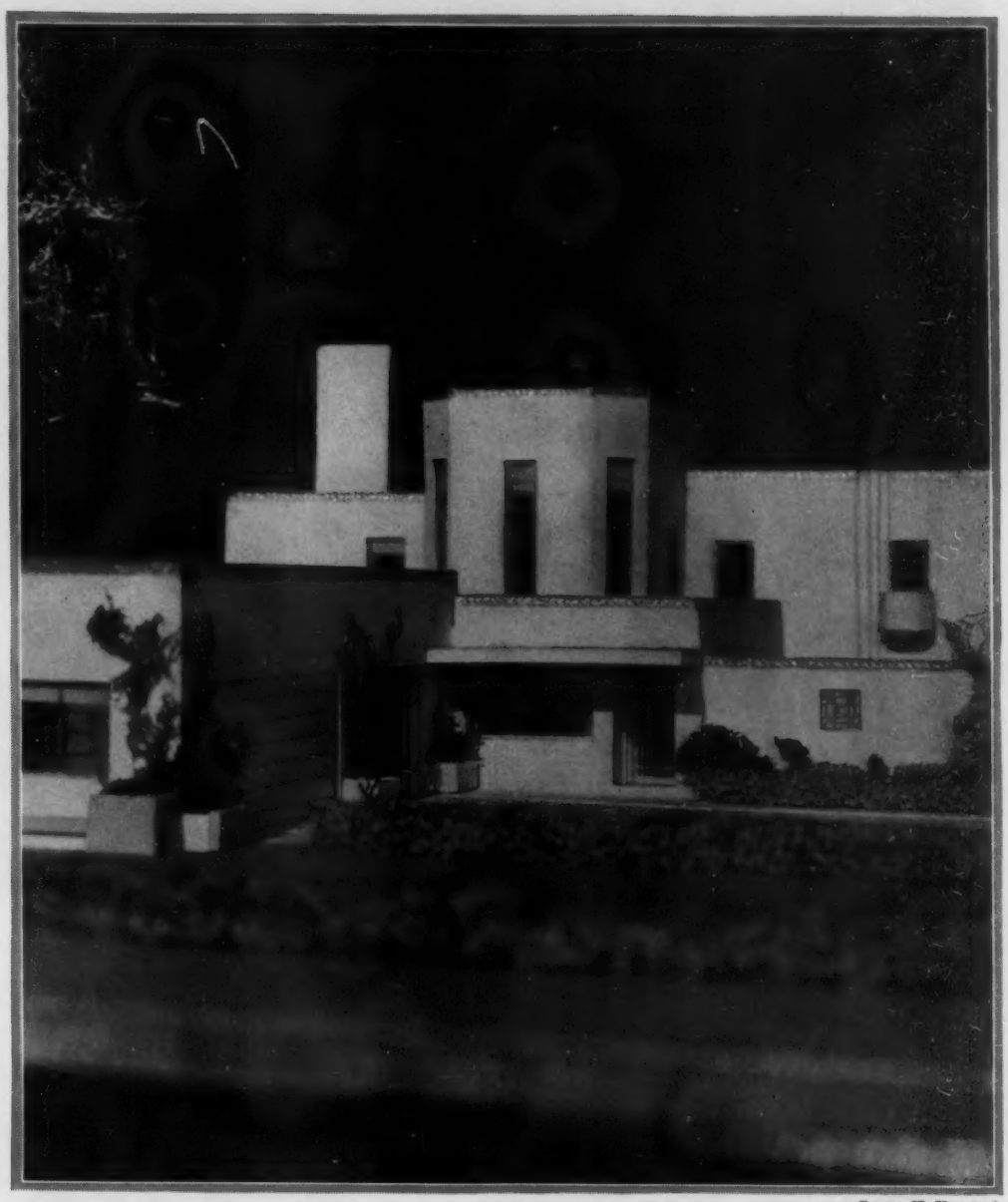
An Armillary Sphere is a skeleton sphere composed of an assembly of rings representing the positions of the important circles of the celestial sphere. The ancients used this to observe the positions of heavenly bodies.

An Astrolabe is a graduated circle marked with sights for taking altitudes at sea. It has long since been superseded by the sextant.

An Orrery illustrates the relative motions of bodies in the solar system. It derived its name from the fact that Mr. Rowley, Master of Mathematics to George I, was financially assisted in making this machine by the Earl of Orrery.

House & Garden Designs Its Own Modernist House

Richardson Wright



George H. Van Anda

On these two pages are views of the entrance to House & Garden's Modernist House, designed by Francis Keally, architect, landscaped by Mary Rutherfurd Jay and made into a model by Edward T. Howes. It can be built of concrete, cement or cinder blocks or brick. The cornice is aluminum. Since the most desirable part of the modern house now faces the garden, the garage entrance has been placed upon the street front

MODERNISM in architecture and furnishing is an effort to express the spirit and accomplishments of these times without too much regard for the past. It is a contemporary cross-section. Tradition, which has heretofore influenced styles, is a lateral movement—it flows from dim and distant beginnings like a river. Modernism, on the other hand, is better understood as a vertical movement, and to see what comprises it, you cut it down as you do a layer cake.

Slicing down into the contemporary trend of architecture and decoration, the first layer encountered is mechanism and the saving of labor it effects. We use more machinery in our domestic life than any decade hitherto. This ranges all the way from the mechanism of electrically-driven clothes washers and dryers and the mechanism of motor cars that furnish transportation and the refrigerator that makes ice, to telephone connections for every room, friction door hinges, machines to extract fruit juices, thermostatically controlled shower baths and electrically-operated clocks. A vast amount of labor is saved when such machines are used intelligently.

Another layer encountered in this cross-sectioning is the new uses found for familiar materials and the effect this has had on our manner of living and on our surroundings. In Colonial times, when wood and brick were about the only available building materials, definite limitations were set on the builder—with them he had to make certain kinds of houses. Large spans were prohibited because wooden lintels did not give the structural strength that steel girders afford. In the age when primitive tools made it possible to cut wood only into small pieces, walls were covered with small panels; today machinery can peel off large sheets of veneer. If we follow tradition, we use the small paneling; if we would be modern, we use large, unbroken panels. Or consider the modern uses for familiar ma-

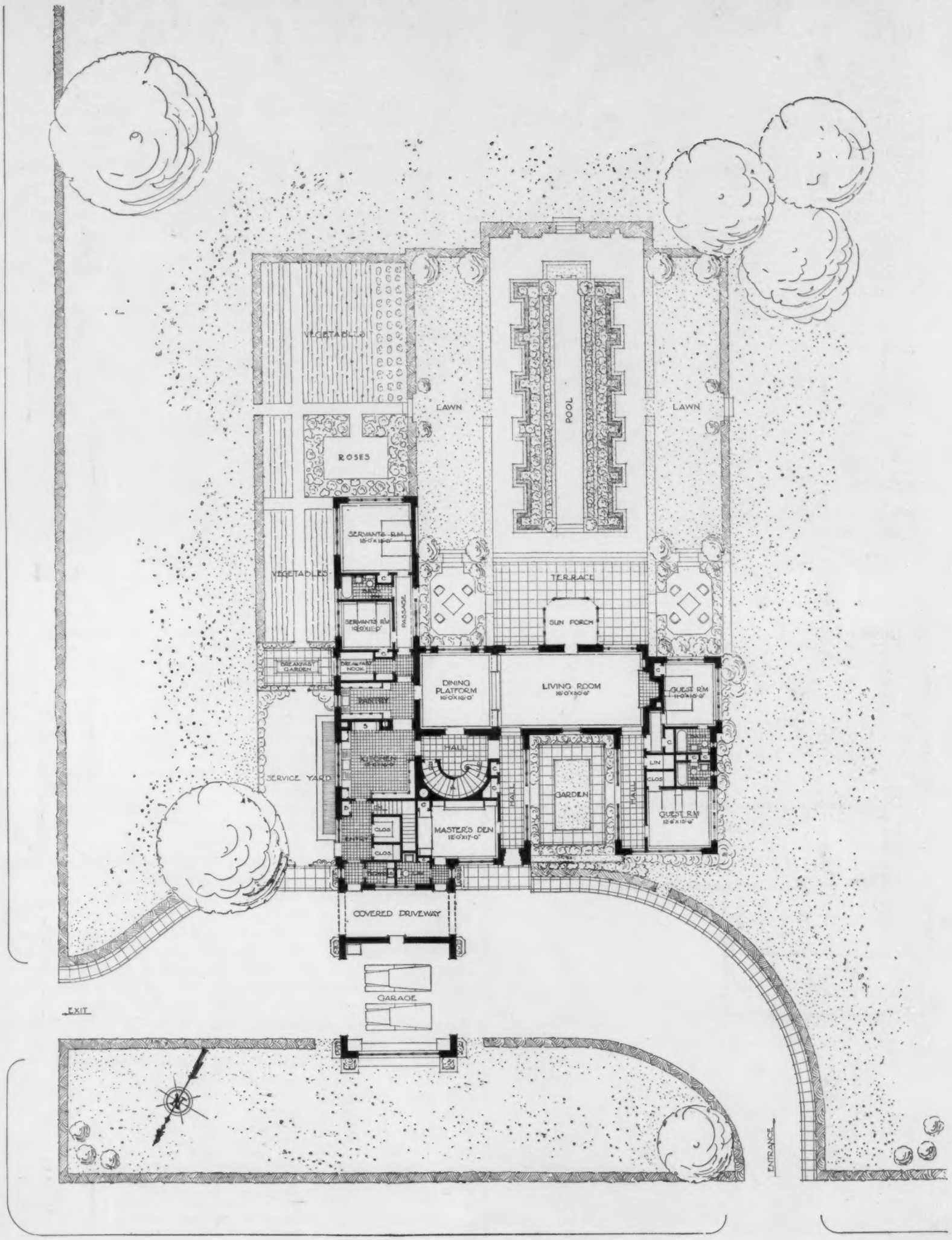
George H. Van Anda

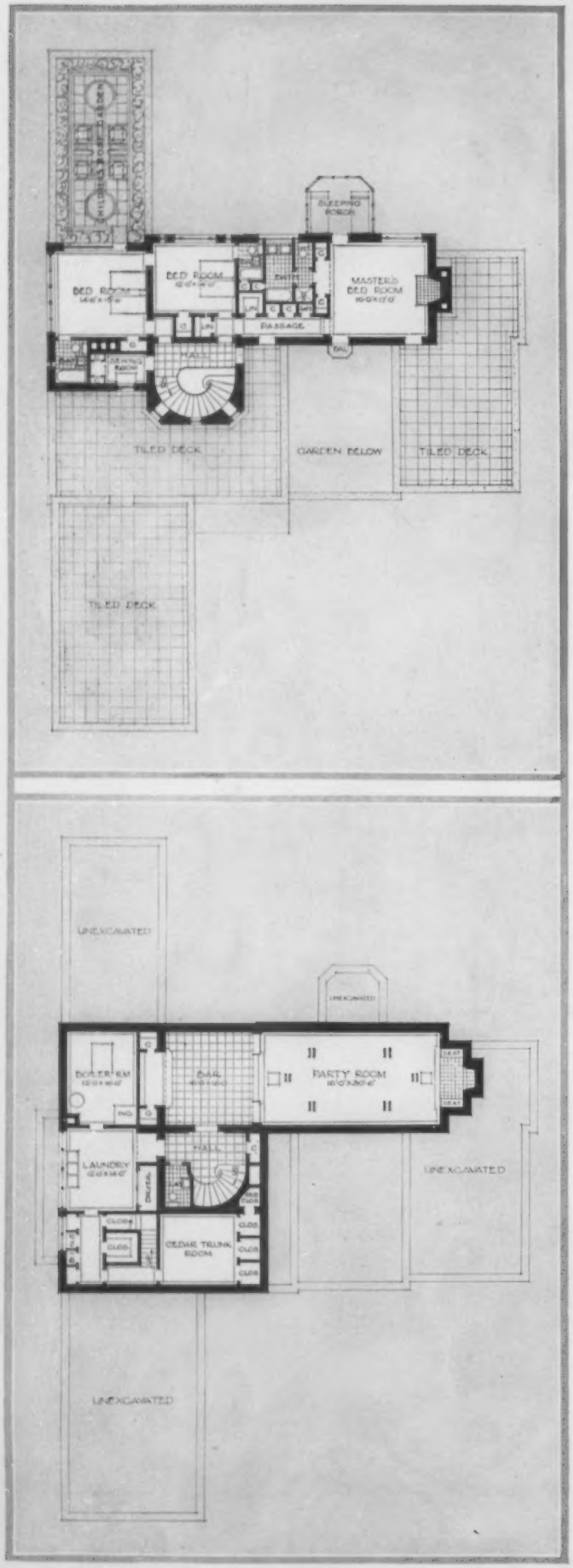
A bird's-eye view reveals the decorative flat roofs off the bedrooms and the play roof off the nursery. At the rear of the house is a wide terrace with a two-story structure of metal and glass which serves for sun room downstairs and as a sleeping porch above. A plan of the first floor and the grounds is shown on the opposite page

terials—aluminum, for example. Once this meant pots and pans to the householder; now he may have the cornice on his house and its window frames made of it. Or consider the familiar problem of the roof. For countless centuries the elements have dictated the pitch of roof a man put on his house—the gable, the gambrel and the hip; today we have learned how to make flat roofs that will support a weight of snow and be impervious to rain. We can now defy the elements and live on and under a flat roof.

A third layer that is apparent is the desire to create new and simple forms of architecture to house this mechanism and these new uses of old materials and in that way to symbolize the spirit of the times. True, all this modern equipment may be built into a house of traditional character, but a complete expression would require a house that is as modern as the ironer in the basement, the motor at the door and the airplane on the landing field. A complete expression would also be a symbol of our philosophy of living.

It is a salient fact that of all our contemporary architectural productions, the home alone is still being considered in terms of the past. The evolution from the past to the present has been gradual. The first tall buildings, designed in the nineties, used the traditional Classical motifs as the basis for both interior and exterior design. This anachronism persisted for many years until a


VEGETABLES
ROSES
LAWN
POOL
LAWN
SERVANTS R.M.
10'-0"x10'-0"
VEGETABLES
C
SERVANTS R.M.
10'-0"x11'-0"
PASSAGE
TERRACE
SUN PORCH
BREAKFAST GARDEN
BREAKFAST NOOK
DINING PLATFORM
16'-0"x16'-0"
LIVING ROOM
16'-0"x30'-0"
GUEST R.M.
11'-0"x15'-0"
PANTRY
HALL
KITCHEN
SERVICE YARD
LIN.
CLOS.
GARDEN
HALL
HALL
GUEST R.M.
12'-0"x15'-0"
CLOS.
CLOS.
MASTER'S DEN
12'-0"x17'-0"
COVERED DRIVEWAY
GARAGE
EXIT
ENTRANCE



Upstairs are three family bedrooms, three baths, a sleeping porch, sewing room and the necessary complement of closets. A large area in the basement is turned into a party room. Here also are found boiler room, laundry, storage room and many closets

few courageous architects began designing tall buildings that expressed in an honest, logical way the nature of their steel construction. The home has still to experience this Reformation in architecture.

When we speak of Modernism, let us always remember that when they appeared, the great styles of the past looked very modern indeed to the men and women of their age; let us also remember that the men who created these styles were trying to meet the problems of their age with the building materials then available. In its time the Elizabethan house with its half-timbering, brick nogging and slate roof was as complete a modern expression as the reinforced concrete block houses being run up in Germany, France and Holland are modern expressions of today.

In building a new house, of course, no one relishes the idea of being laughed at for being too strikingly different from his neighbors. However, if the modern house he builds is modern in sincerity and purpose and expresses in its design the contemporary philosophy of living, he has made a distinct contribution to his neighborhood.

With these various phases of Modernism in mind, House & Garden decided to offer its own contemporary expression. It is the work of Francis Keally, architect, and Mary Rutherfurd Jay, landscape architect. It has gradually been evolved through twelve months of study and experimentation. The purpose in designing it was to house a modern family which rides in modern motor cars, wears modern dress, eats meals cooked by modern methods, employs the modern machinery of the household and is alive to the aspirations and impulses that stimulate this contemporary generation.

American architecture, as we have seen, has succeeded in modernizing the commercial building; our skyscrapers are modern to the *n*th degree—and they are American. But as yet few American architects have succeeded in creating modern houses that are not bald imitations of contemporary work in Germany and France or faint adumbrations of traditional styles tinged with modernistic motifs. The endeavor illustrated here is an American product, designed to use American wares and mechanisms, and it has the same logic and honesty of construction as the skyscraper.

Since its qualities of composition have grown naturally and sincerely from the roots of the problem, there is no especial style to this house. Proportion, mass and simplification were the ideals in the exterior architecture; utmost convenience of living was the ideal in its room arrangement. We have tried to avoid that common method of building a house whereby a traditional style is first chosen and then the family squeezed into its walls as best they can.

As we are dealing with a theory and not an absolute condition, we have chosen to place the house on a lot 200 by 275 feet, about an acre and a quarter, with the entrance side facing north. Nor has any definite cost been placed on it, since its mechanical equipment will depend on the desires and purse of the builder. The actual structure is of medium size, the body being 80 feet wide and 76 feet deep, and the garage extends 35

George H. Van Anda

The low wing at the near side of the house is for guests and contains two bedrooms and two baths. Its rear windows have a view of the garden. The long wing in the background is for the servants

feet toward the street which the house faces.

The first thing apparent about this design is that the garage stands in front of the house on the street side. Here we encounter our first outpost of the modern way of living. Before the age of the automobile, the living side of the American home faced the street. The front porch was its apotheosis of outside comfort and adornment. Today motors, either in motion or at rest, fill our streets with noise and fumes. The street side of the house is no longer desirable. For quiet and privacy we now find it necessary to locate the living rooms on the garden side, putting the service to the front where it has easy access to the street.

Moreover, this garage has been made an integral part of the design. And thereby hangs another tale. When the motor car emerged on us with comparative suddenness some twenty-five years ago, it caught us unprepared for housing the machine. Metal garages sprang up as temporary solutions and as they were ugly, they were placed as far out of sight as possible—usually in the rear of the property. To reach this structure the owner was compelled to build a road, which encroached on his available garden space, and whether the day was wet or dry he had a considerable walk before he reached his garage. In the process of gradual evolution these first mistakes have been eliminated. First the garage was incorporated into the body of the house itself, so that the problems of road, walk and the upkeep of a separate structure were all solved, and now, with the house turning its back on the street, the garage has reached the front.

In this house the garage is placed in such relation to the entrance and the house itself that it offers the maximum of convenience, accessibility and utility. There is no backing out: the car enters the garage by one door and departs by another. Doors made of leaves that fold back on the ceiling are opened and closed by an electric switch on a decorative iron post which can be reached by the driver without leaving the car.

Visiting cars pass through the driveway. There is direct and easy access from the garage into the service and main parts of the house. As shown here, the garage is designed to hold two cars; additional space can be made by enlarging it toward the street side. The doors are silvered, to harmonize in color with the decorative cornice of the house, and judicious use of plant material gives it a favorable aspect to the passerby.

A glance at the exterior of this house will show that it may be constructed of various types of materials—monolithic reinforced concrete over a steel frame; cinder or cement blocks surfaced with a smoothing coat of cement; or whitewashed brick. Whatever the material, it should be so constructed that repair bills and upkeep are reduced to a minimum by employing materials that do not deteriorate.

Floors and walls are designed to be sound-proof, fire-proof and vermin-proof. This type of construction we have come to demand in our modern hotels, apartment houses and clubs: why not in the home? The exterior walls should be insulated and an air space provided similar to that in a refrigerator. This same system of insulation would apply to the treatment of the various roofs, thus making a warm house in winter and a cool house in summer.

Other desirable features of construction and finish would include the elimination of dust-gathering cracks by providing sanitary cove bases in the rooms. Rubber tiling and linoleum could be laid in many parts to provide resilient floor coverings. All pipes and conduits are concealed between the steel channels and metal lath partitions. They

The view on this page shows the service yard and kitchen windows, the little breakfast garden and the wing containing two servants' bedrooms. Above is the nursery and the walled-in play roof with its parchesi game tiling. Directly opposite is shown a garden perspective and below it is a view picturing the guest wing, garage and entrance

George H. Van Anda

In this issue we present merely the necessary outline of the architecture and general structure of House & Garden's Modernist House. The interiors, which will contain a pleasant mingling of traditional and modernist furniture, will appear in the February Number, and in the March Gardening Guide, the details of the garden and landscaping

would be of some non-corroding material.

Such decoration as is indicated on the exterior is produced by modern methods and usages. The cornice is aluminum because aluminum will not streak the walls. Decorations in the cement walls can be cut by sand-blasting over a stencil.

Since the front entrance in a Modernist house with its back to the street need not be pronounced, the portico and front door to this house are kept very simple—a cement slab affording protection against the elements and the door itself recessed into the wall. An aluminum or polished steel grille gives this door a decorative protection.

From this front door one enters a long, narrow hall with a battery of seven windows and a French door, all of leaded glass, looking onto a small enclosed garden to the right. To the left is the master's study or office, provided with bookshelves, a built-in bunk, and a closet for his private supply and golfing gear. Opening from the entrance hall are two small coat closets. Beyond them is the entrance to the stair hall.

This stair hall is not seen from the entrance hall, being placed in a separate area easily accessible from any part of the house. After all, the stair hall usually is concerned with the family and not with guests and it seems reasonable to place it so that it doesn't hit the guest in the eye. From this stair hall one can either go up into the second story or down into the party room in the basement. A special service stairs to the basement is provided in the entry off the kitchen.

The stair hall is also a center of household traffic: one door leads to the kitchen while another opens to the dining platform, and another to the entrance hall, thence down two steps to the living room.

Stepping onto that dining platform we encounter another expression of contemporary usage. A separate dining room in many cases is an anachronism: it justifies its existence for only a few hours each day. The necessary economy of space in the modern apartment house, where the dining room and living room are gradually being combined into one unit, has made us accustomed not to expect a separate room. In this house we have compromised the layout and at the same time afforded privacy for dining without detracting from the desirable dimensions of the living room. One end of the living room is designated the dining platform, and is reached by ascending three shallow steps. It is set apart by a balustrade and by heavy curtains. While the table is being set and cleared, these curtains can be drawn together; during meals they may be opened, thus allowing the diners to obtain a complete vista of the living room toward the fireplace located at the farther end.

The guest rooms are situated on this first floor—on the farther side of that little front enclosed garden, and reached by a hallway from the living room which balances the entrance corridor. Here again we come to the modern philosophy of living and hospitality. Guests are guests—even the nicest of them. We should never make them, nor do they expect to be made, intimate members of the family. The old idea of placing guest rooms on a second floor seems rather bad planning—privacy is not available for either family or guest. When the guest rooms are connected with the family quarters and if there happen to be young children in the house, life becomes very complicated. The guest usually awakens when the baby cries for its breakfast and the murmurs of the bambino are thereupon stifled because there is a guest in the house. In this scheme guests are isolated in a separate wing.

Let us return to the living room. At the rear is a wide, paved terrace facing the garden and broken at the center by a metal and glass sun porch set at the head of the main garden path. This glass would be of the kind that admits the ultra-violet ray.

In both the dining platform and living room are large plate glass windows reaching from ceiling to floor and approximately seven feet wide. Through these windows

(*Continued on page* 132)

The Recent Rise Of An Old Habit—Staying Home

SHORTLY before that November cyclone blew down the cañons of Wall Street, demonstrating to thousands of people that much of the money they thought they owned was only imaginary and that the rest of it could easily be snatched from them, we had received some strange reports.

The first came from the leading sporting goods shop of the metropolis: in the three previous months it had sold more home games than ever before in its history. Ping-pong, backgammon, chess, checkers—such games.

From a survey of the furniture business it was reported, at the same time, that rarely ever had there been such stupendous and unaccountable sales of dining room furniture. This was paralleled by the experience of one prominent New York antique dealer who enjoyed an unprecedented business in expensive dining room tables and chairs—the sort that sell from $2500 to $5000 the table. Twenty-eight such were sold in a relatively short time.

Piecing together these unrelated fragments, we began to have a faint suggestion of a picture that, if only a few more pieces could have come along, would have promised an encouraging movement. If people were buying dining room furniture, it was natural to suppose that they intended to dine at home. If they were making a great outlay for home games, we would logically deduct that they intended to play them at home. Then, as we all remember, came the great wind down the Wall Street cañons, and out of the debris in its wake, we picked up more fragments of that picture. Book shops reported a sharp rise in the sale of books. People who once apparently had so much money that they didn't know how to enjoy it, suddenly awoke to the fact that they were lucky if they had a home. And from these broken and unrelated bits and reports the picture took shape. People are staying at home!

OF late it hasn't been fashionable to stay home. Thousands of people have been using the home merely as a spring board from which to dive off elsewhere. There has been a lamentable amount of useless gadding about. On coming home, instead of asking, "What shall we do?" they've been demanding, "Where shall we go?" The country club, the roadhouse and the movies have reaped their profits. Meanwhile those who elected to stay at home were looked upon with mild and condescending amusement. Those who chose to dig in their gardens instead of loafing around a country club, those who found more enjoyment playing games and puttering and reading at home of nights—such placid folks were just a wee bit dull and they didn't know what they were missing.

Having always belonged to this stodgy class, I rise to defend it. And the more that circumstances—adverse or otherwise—make this class increase, the more hope I see for the American people. We are in desperate need today of men and women whose dearest dream is to own a home and to stay in that home, who would rather be at home than anywhere else. We need such homes and such men and women in them, because from that basis spring the solid welfare and increasing advancement of the nation.

Being at home and the enjoyment of staying there presuppose several important facts:

It depends on the sort of home you have. It must contain the necessities for comfortable and decent living and a modicum of those luxuries and amenities that make life run a little smoother. Bare necessities any industrious man can usually provide his family; the luxuries depend upon the quality of his taste and intelligence and the extent to which he is willing to save and sacrifice that he may attain them. The mirror that represents an accumulation of slim luncheons, the book that cost more walking and less taxies have a way of being cherished once they are acquired. The old-fashioned habit of thrift pays lasting dividends.

Staying at home also depends on the quality of companionship found there—a wife, a husband, children, even pets. You must enjoy being with these people (however stodgy it may sound) much more than you enjoy being with other people. You have also to make yourself mutually enjoyable. It is an affair of give-and-take. The contact of personalities must run along smoothly and no influence, either from inside or out, can be permitted to interfere with it. Peace must dwell within the walls if contentment is to find shelter there.

THE power of excessive (and imaginary) money has gone strangely to some otherwise normal people's heads. Having come easily, they have flung it about. They have permitted it to give them false standards. They have let it undermine companionship and place an inflated value on trivial matters. In a lamentable way appearance has seemed of more value than substance. It has fashioned petty little creeds about one's doing what is called the right thing and doing it in the right way, petty little creeds that have standardized taste and suppressed individuality.

A third factor in enjoying one's home is the quality of resourcefulness—the ability to stay within four walls, either alone or with others, and find so much to do that time slips by before one notices it. The book to read, the piano to play, the radio to operate, the tinkering at this thing and that, the petty laboring over a car or the repair of a table, the gardening, the scribbling, the studying, the playing games, writing letters even—such matters constitute the ability to find employment and amusement without regard to how one is dressed or how ridiculous that employment may appear. Resourcefulness is the mark of the individual. People endowed with resourcefulness are rich; they have an other-worldly wealth. They are rich in that they enjoy their industry and are absorbed in it. They are not dependent on their appearance or how many people see them at it. The resourceful man never needs an audience.

THESE conditions are not necessarily the product of money—either the lack or the having of it; they are faculties that spring up from within a man's being, from the roots of his character. They are the fine crop he garners from an ordered and disciplined life. He who possesses them actually misses little that is worth while. So long as he can close his front door and shut out the world, so long as he is happier behind that door than anywhere else, so long as he enjoys most being with those his home protects, so long as these matters are vital to him, he will never be shaken by the storm, let the wind blow from whatever quarter it will.

RICHARDSON WRIGHT

George D. Haight

An old-fashioned dooryard garden is divided by a bricked path leading to the entrance door and its welcoming latch-string. Tall spires of multi-hued Hollyhocks flank the gate. The residence of Mrs. Dorthy Cotton at Montecito, Cal., other views of which are shown on pages 93, 94 and 95. Roland E. Coate, Architect

Where A Picketed Gateway Guards The Dooryard Path

(Below) In a remodeled English basement house the original front door vestibule was transformed into a tiny flower room. The walls are lined with mirrored glass, and the floor is tiled with sections of marble, or black glass laid so that it slopes towards the center where there is a drain. Iron trees holding plants decorate the walls. The shade is glazed chintz

Flower Rooms In City Homes

Pierre Dutel

SINCE architects and builders are continually planning novel and interesting effects, I think it an opportune time to suggest that they make a feature of a flower room, particularly in the city house or apartment. If there is not sufficient space to give an entire room up to this subject, then an alcove or deep bay window treated in a decorative manner and filled with flowers and growing plants will serve to suggest a garden room, especially if the furnishings are selected to further this idea.

Recently I was called upon to refurnish an English basement house and finding the rear room on the ground floor inadequate for living or dining purposes, this was converted by the use of mirrors, paint and marbleizing, together with Italian and French peasant furniture, into a charming recreation and flower room combined. The walls are a deep salmon tone with the texture of old plaster; the door trim and dado are marbleized black and gold and the floor is covered in composition flooring laid in uneven blocks to simulate flagstone. The chimney breast is covered with large squares of antique mirrored glass and the old badly designed mantel was replaced by simple molding marbleized like the trim. Lighting fixtures of wrought iron springing from baskets holding trailing leaves are effective notes against the mirrored overmantel.

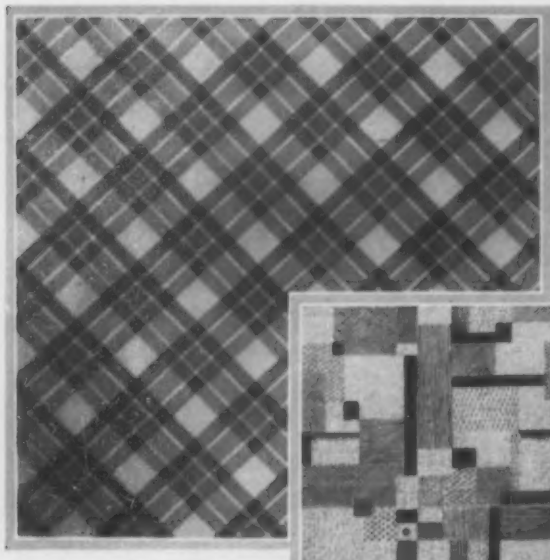
In front of the windows is an old Italian iron grille equipped with rings to hold potted plants, and the light filters through curtains of soft pink gauze the color of the walls. An ugly outlook such as one often encounters in a city house or apartment may be hidden by the use of grilled screens set against the windows, such as the bird design illustrated on the opposite page.

In a duplex apartment furnished with Italian pieces there was a small room between the living room and dining room that was transformed into a delightful flower room. Here the walls and vaulted ceiling are painted a soft yellowish pink and rubbed down to give the texture of old chalky plaster. The entrance to the dining room is hung with a pair of old oak doors stained a dark, rich color and studded with

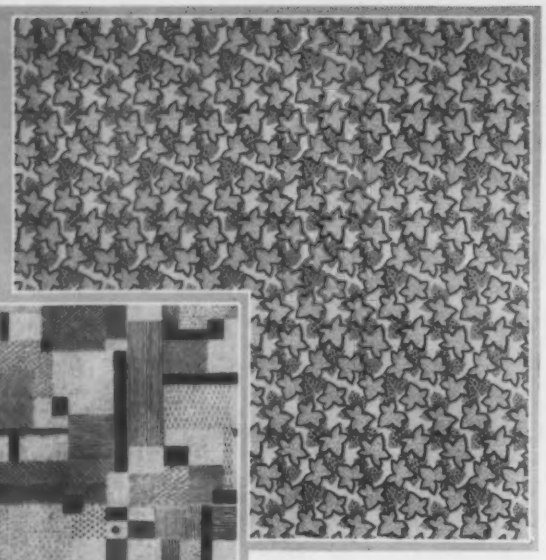
(*Continued on page* 106)

Iron brackets holding plants are effective contrasts in this flower room where the walls are Italian pink with woodwork marbleized rusty black. The chimney breast is mirrored. The rooms illustrated were designed by Pierre Dutel

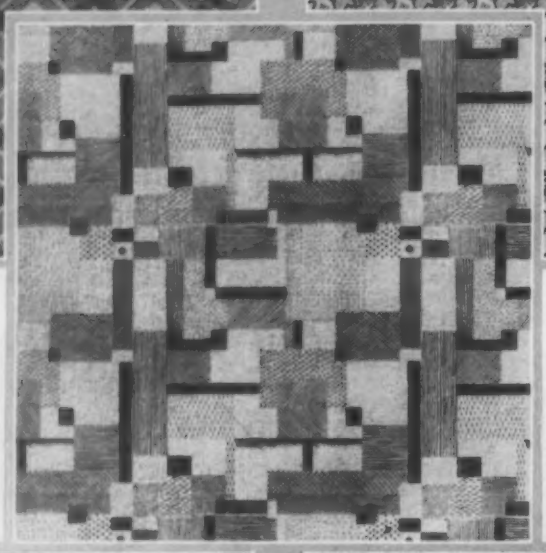
Where there is an ugly outlook, an ornamental grille covering the window adds a decorative note and helps distract the eye from the view beyond. At the right and on the opposite page are delicate iron brackets for flower rooms



(Above) An attractive plaid design is available in three color combinations: blue, red and yellow, blue, green and orchid, or orchid, green and rose. From Bloomingdale



(Left) Ivy leaves mark a patterned oilcloth for wall and table coverings. This comes in three tones of green, orange and yellow, blue and green, rose and blue on white. Gimbel



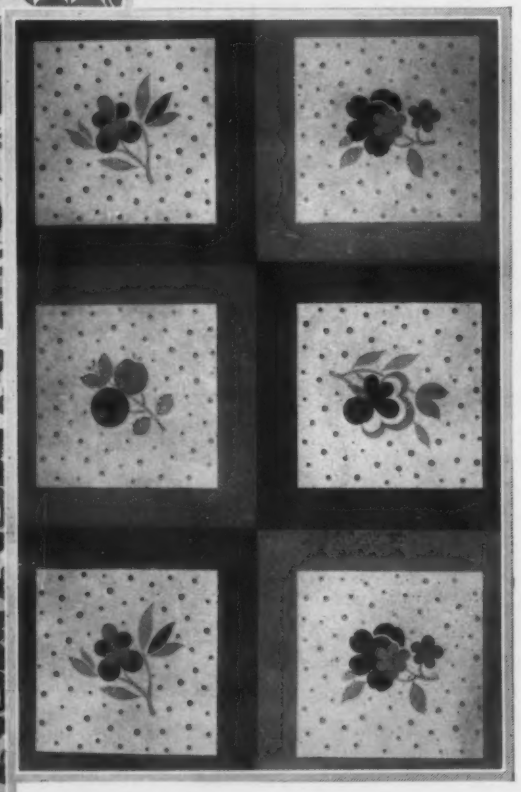
(Left) This shaded block pattern was designed in the manner of modern wall papers in varying tones of red, blue, green, yellow or orange. It comes from Stern

Oilcloth For All Purposes

(Above) Harmonizing tones of yellow, peach, coral, orchid, green and gray blended on a pale blue ground form clusters of flowers. Closet shelves, hat boxes and shoe cabinets covered with this oilcloth would make a pleasing ensemble. It is available from Stern's

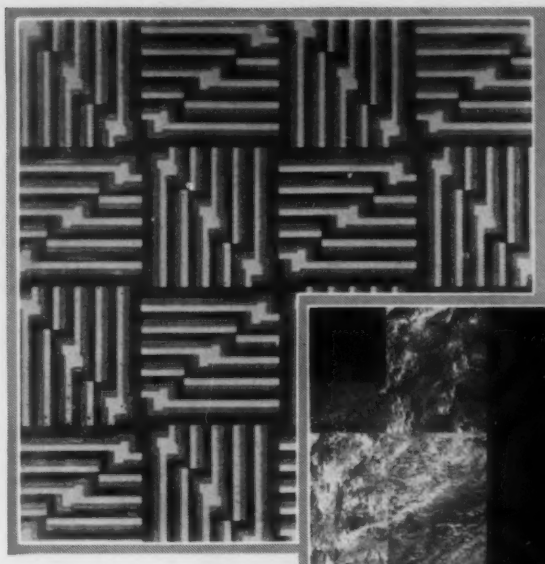
(Left) A modernized interpretation of the Lotus flower in yellow, blue, orchid or green makes a good theme for cushions, screens and table cloths, as well as wall covering. From Macy

(Right) Conventional enough to satisfy the conservative taste is this modern all-over flower pattern designed by Ilonka Karasz. Blue, red, green, or yellow color schemes may be developed for kitchen, pantry or informal breakfast room. Courtesy R. H. Macy

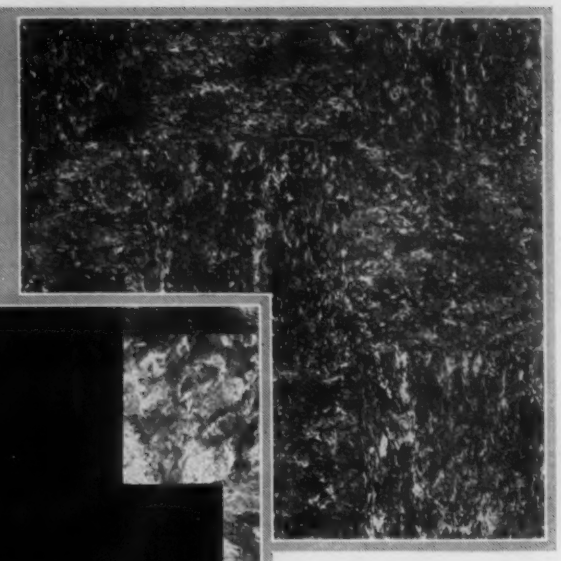


(Above) One color scheme of this quaint design has blocks with alternating borders of yellow and green, flowers of rose and blue, and polka dots of green and blue. Another pleasant combination is green and orchid with blue flowers. From R. H. Macy & Co.

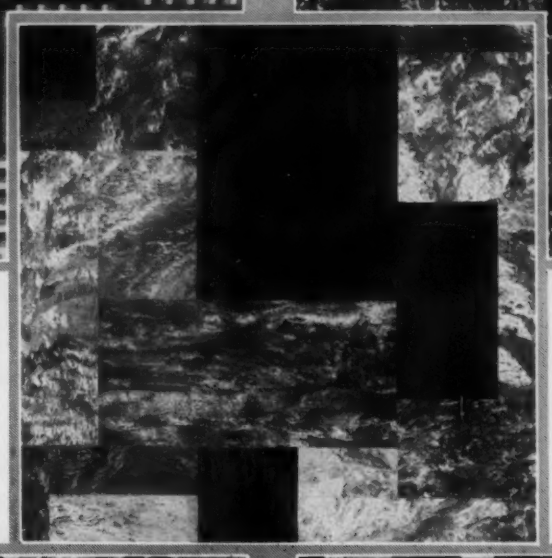
New Designs In Linoleum



(Right) The ombré effect so often found in modern fabrics is achieved in this blocked linoleum. Chartreuse, copper, yellow, blue-green, tan or gray. From Stern Brothers

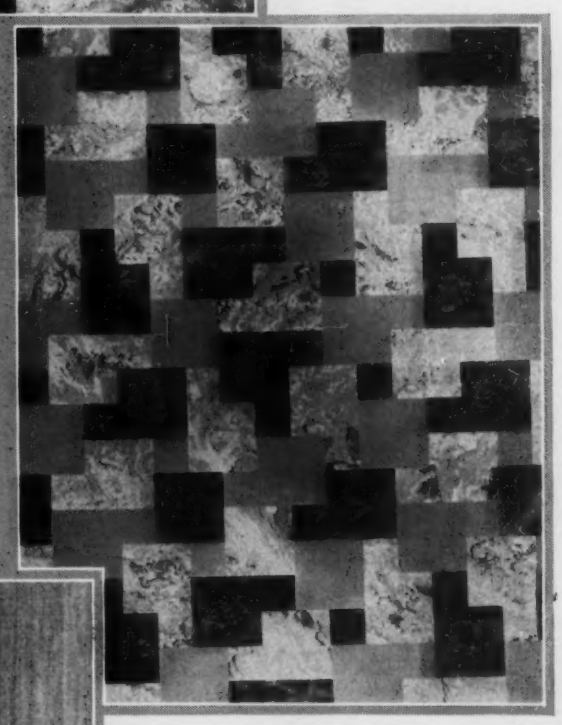


(Above) A marbleized tile design in a variety of colors: rose and tan, green and rust, brown and tan, black and white, and grays. W. & J. Sloane

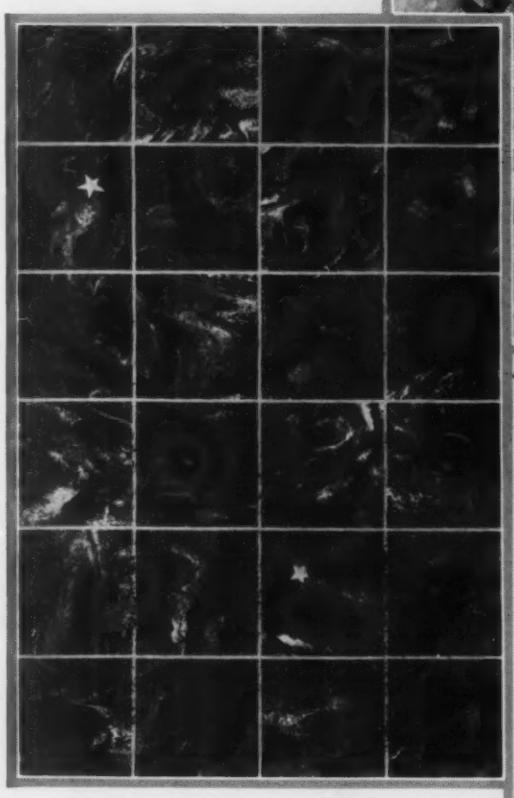


(Right) Blocks of bright terra cotta against a background of differing shades of gray form an interesting geometric pattern. From R. H. Macy

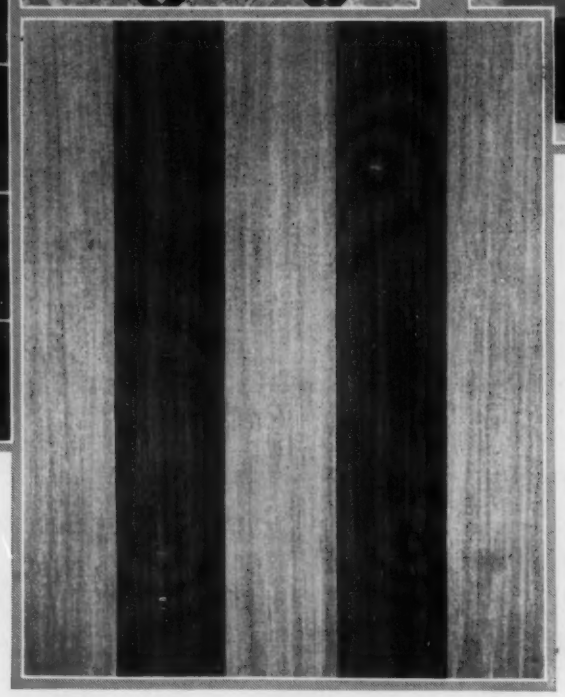
(Right) Inspired by an ancient Egyptian tile which was a combination of alabaster inlaid with colored clay, this modern interpretation is available in green and terra cotta. Gimbel



(Above) Marbleized blocks of irregular shape and differing colors against a solid colored ground present an unusual pattern. Many combinations are to be had, among them tones of green, and a robin's egg blue ground with gray marbleized blocks. Gimbel



(Above) A pleasant variation of the regulation marbleized block pattern is this design. The black squares are marked off with bright green lines and enlivened with occasional red stars. Other color combinations are also available from C. H. Pepper, Inc.



(Left). Alternating stripes of light brown and tan resemble a floor of oak planks in texture, color and design. The simplicity of this pattern makes it especially suitable for a room decorated and furnished in the 20th Century manner. From James McCreery

Bringing An Old House Up To Our Present Standards

Elizabeth Hallam Bohn

THE limitations of a home long lived in often become so much a part of its personality that they are accepted with unquestioned loyalty. But when a new owner takes possession of a house built before the present age of comfort, many possibilities for added convenience present themselves.

With the great developments in household engineering, there is hardly a house, whatever its age and ancestry, which cannot be made thoroughly livable. And the practical check up of carpentry, heating, plumbing and lighting which should precede redecorating and furniture planning will dramatize the amazing strides modern manufacturers have taken to make possible the rejuvenation of any house.

In this age of easy living and hospitality, the heater must adequately serve thin frocks and late hours. Modern coal, gas, and oil burning equipment will easily provide adequate heat while proper insulation will keep it where it belongs. One of these systems, for example, delivers to each room at the touch of a finger as much or as little heat as is desired without effect on the temperature of the other rooms, and steam is generated only as the call for heat increases. Thermostats are the accepted guardians of a steady temperature in the well-heated home today, and with the automatic oil and gas systems, the heater is not only out of sight but out of mind.

HEATING SYSTEMS

Many old homes were formerly served by a warm air furnace and this opens new possibilities in home comfort. For the large pipes running through the house will permit of the installation of the latest development in gas heaters which not only supply a balmy warmth but the right amount of moisture for health, automatically controlling the humidity day or night. Dust and dirt are removed from the air and it is then sent out into the rooms under pressure. Mark Twain would certainly not be able to complain today that "nobody does anything about the weather."

Should a steam, hot water, vapor or vacuum system be used, the radiating element—compact and easily controlled—may be sealed in under the windows, out of the picture and out of the way. These concealed radiators are not difficult of installation in an old house, for only the removal of a small section of plaster is necessary to hold the sturdy steel cabinet. Should any additional piping be needed, it is "fished" up through the inside of the partition with the same ingenuity that wires the old home so easily for electricity. Once they are installed, the radiators will never again require attention.

THE RADIATOR

Another new type of radiator clings unobtrusively to the floor line, either visibly attached to the baseboard, partially recessed, or entirely concealed. It is only eight and a half inches high and three and a half inches deep and when painted to match the trim is almost invisible. The length of radiation and distinctive design eliminate cold floors and chilly spots and prevent as well the smudging of walls, so distressingly familiar with the call of spring. With this highly satisfactory method of heat distribution, a return pipe will be necessary on a steam system and provision must be made for forced or overhead gravity circulation, if hot water is to be used as the heating medium.

For a more modest solution of the problem of radiator concealment come the many decorative enclosures to cover the existing equipment and make an attractive table or window seat. These cabinets, finished to suit any furnishing scheme, are scientifically designed to permit air to pass freely over the water pan inside and into the room at the living level. Or perhaps only a shield at the back and top will be preferred, to throw the heat outward and afford protection for the walls.

A novel and interesting development is the lighted humidifying fountain, another means of giving out necessary moisture to the air, while continually absorbing the smoke and dust. No water pipe is necessary for this feature; merely connecting it with the light socket constantly circulates the water over and over again, combining the pleasant melody of its plash with ever changing rainbow tints and hues.

To be thoroughly modern, continuous hot water must be provided in the rejuvenated house. And with the efficiency of the modern equipment—coal, oil, gas or electrically operated—the dream of steaming water a-plenty day or night may be easily realized. Of two types of heaters to serve the up to date home, one connects with a storage tank and keeps a large quantity of water at a certain temperature while the other heats the water as it flows. And then there is an ingenious combination which heats the bath by coal, and burns the garbage at the same motion, unless one prefers to destroy the trash, rubbish, and garbage by simply pressing the button of one of the efficient and easily installed incinerators.

Many an extra bath can be tucked into an entry or even a large closet, to modernize a home which still remains in the pitcher and bowl period. While circumstance will usually determine a bath's location, it should, if any choice is possible, be located in direct line with existing piping.

WHEN DECORATING

And the furnishing of the modern shrine of cleanliness is a colorful experience. Perhaps the only decorative note will be a stool of pastel sea pearl tint to match the shower curtains. Or, on the other hand, the fixtures may be completely in color, paralleling comfort with beauty in their charm of line and design, while walls of composition sheet material complete the ensemble with their semblance of glowing tile.

Closets, too, may be eked out of waste spaces or may be bought in complete units for kitchen or chamber. And existing closet room may be surprisingly increased by the clever space-saving equipment on the market. Closet doors can be turned to account by attaching trouser or skirt racks and shoe racks. Garment carriers run silently out on

(*Continued on page* 108)

Trowbridge

This interesting game room in the basement of Mrs. F. E. Compton's house in Glencoe, Ill., reveals many aspects of modernism. The three-sided columns are mirrored glass; natural burlap stencilled in copper color covers the walls, and the ceiling is painted Chinese blue with lacquer red beams. Mastic tile in black and copper stripes, highly waxed, makes a good dancing floor. Other rooms in this house appear on the following pages

A Little Portfolio Of Modern Interiors

Trowbridge

The unusual color scheme of the dressing room was taken from the covering of the day-bed—a gray and fuchsia silk painted by Jean Dunand. Fabric in soft grays covers the walls; the woodwork is colored in three shades of gray while the carpet is dark gray. The curtains are of fuchsia satin

In Mrs. Compton's bath-dressing room the background consists of pale green walls and a yellow and salmon marble floor. Curtains are salmon silk, and green taffeta trimmed with silver drapes the dressing table. Rooms designed by D. I. M. of Paris and executed by Lord & Taylor

Elegance And Charm In Dressing Rooms

Mirrors Serve Both Utility And Grace

A practical feature of this dressing room is the mirror lined recess for the dressing table. The daybed and arm chair are palisander and ebony, the cabinet ebony with ivory knobs, and the tables chromium metal with black glass tops. Shaded fuchsia silk covers the overstuffed chair

(Below) Another view of the game room showing the interesting mirror-faced fireplace with a modern French painting above. The furniture in this room is painted black with upholstered seats covered in silver processed leather. Armstrong, Furst and Tilton were the architects who designed this residence

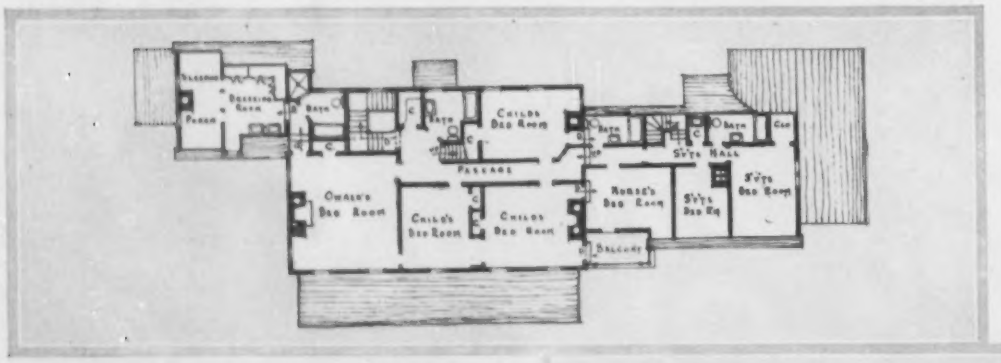
The Romance Of Architecture

R. W. Sexton

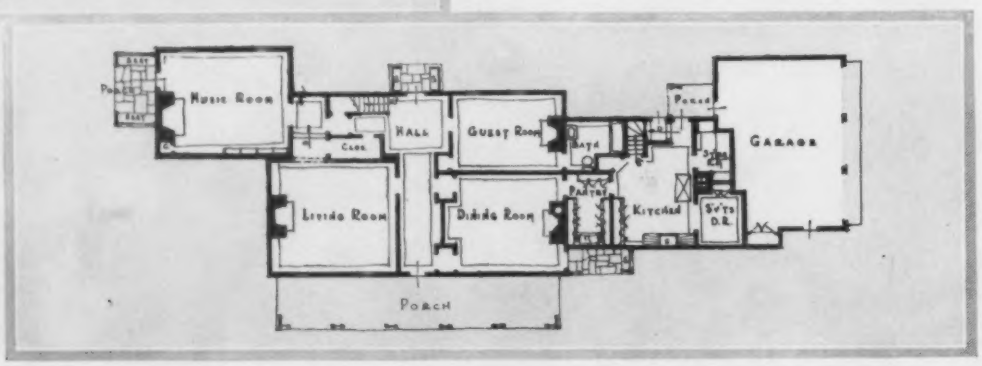
DICTIONARIES define the word architecture as "the science of building." Considered as such, the average layman could hope to find but little in the subject that he could understand. He visualizes immediately the necessity of comprehending technicalities for which his mind has not been trained and he usually throws up his hands in despair at the mere thought of even attempting to make himself acquainted with the intricacies of a subject which to him is synonymous with building.

Architecture does not mean building any more than painting means the manufacturing of paints. Architecture is rather the art of designing buildings. To be sure, the architect must understand the science of building in order that his designs may be practical and that the buildings he designs may actually be built. But he must first be an artist and possess an unusual understanding of the philosophy of life. For the buildings he designs must not merely conform to the principles of art, but must actually reflect the tendencies of the times and the character and individuality of the people who inhabit them. Thus I would enlarge on the definition of the word and say that architecture is an artistic expression of human needs and desires determined in terms of available building materials.

To parallel architecture with building tends to lose sight of design. Eliminating the element of design, architecture loses much of its appeal and interest. Design gives a romantic touch to architecture which one



The plan of this house on Long Island tells its owner's story: a family with three children, one young enough for a nurse; someone fond of music; well-to-do but not pretentious. Roger H. Bullard, architect



would hardly expect to find in a subject recognized as a science. The design of every house, if logically developed according to established principles, tells a story that actually sparkles with romance.

One can readily understand that an architect, in order to develop a design that shall express his client's character, that shall meet his individual needs and satisfy his peculiar desires, must know his client intimately. He must familiarize himself with his client's customs, his habits, his mode of living, his likes and dislikes. An architect who attempts to design a house for you without becoming intimately acquainted with you loses sight entirely of the fact that your house must not merely be one that in its design is conceded to be beautiful, but that your house must be of such a character that it will satisfactorily serve as your home. It is in the designing of a house that is to serve as a home for some particular family that the essentially romantic side of architecture surely comes to the fore.

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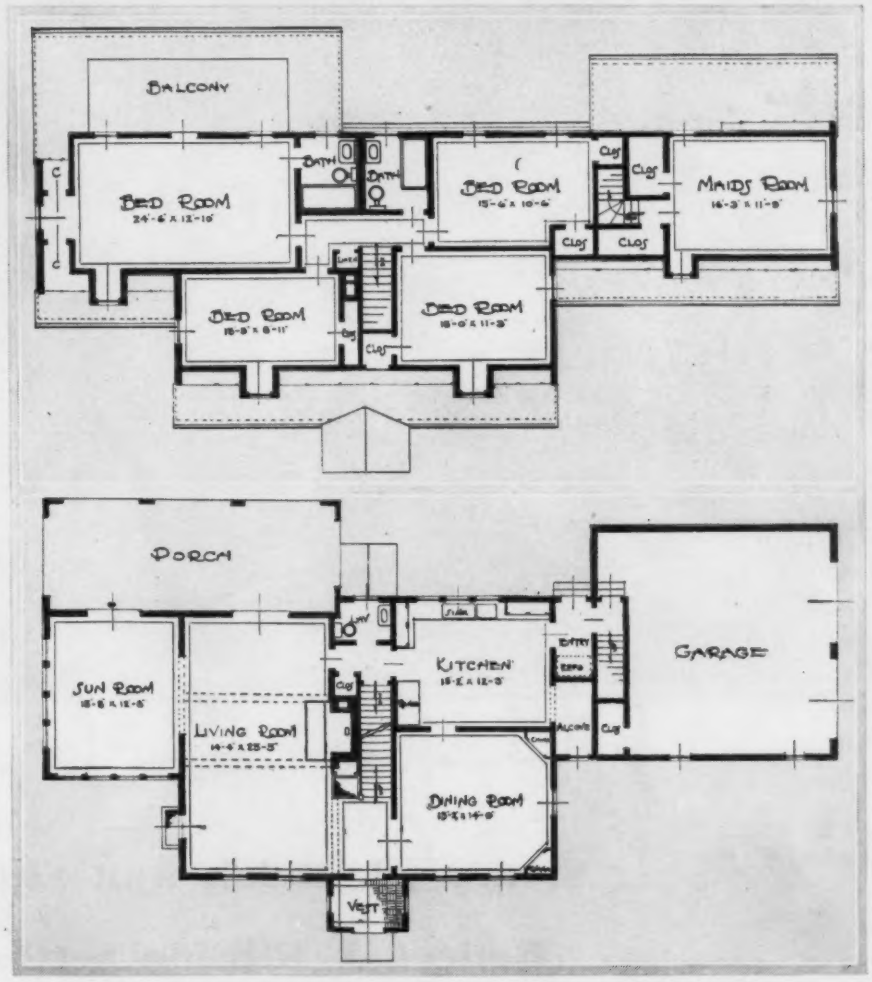


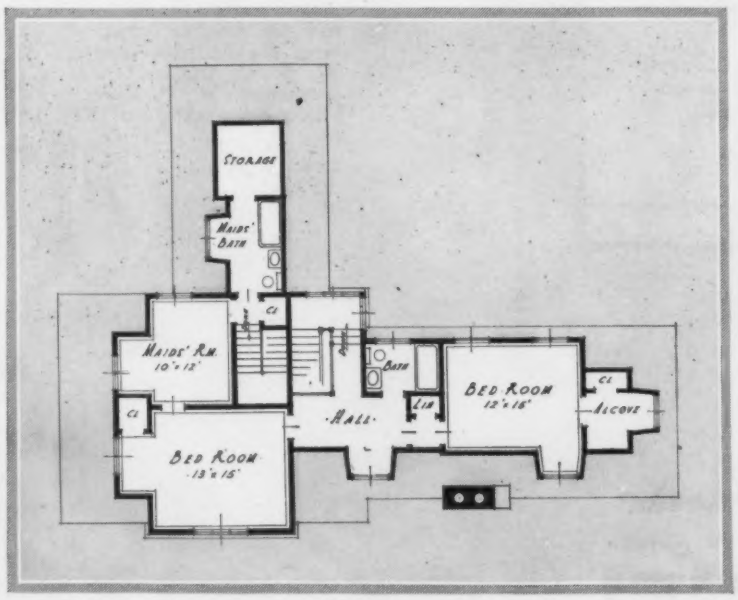
New England family traditions are cherished and clearly reflected in the house of Alton L. Miller at Scituate, Massachusetts, of which Royal Barry Wills was the architect. It is a place that reflects its owner's tastes

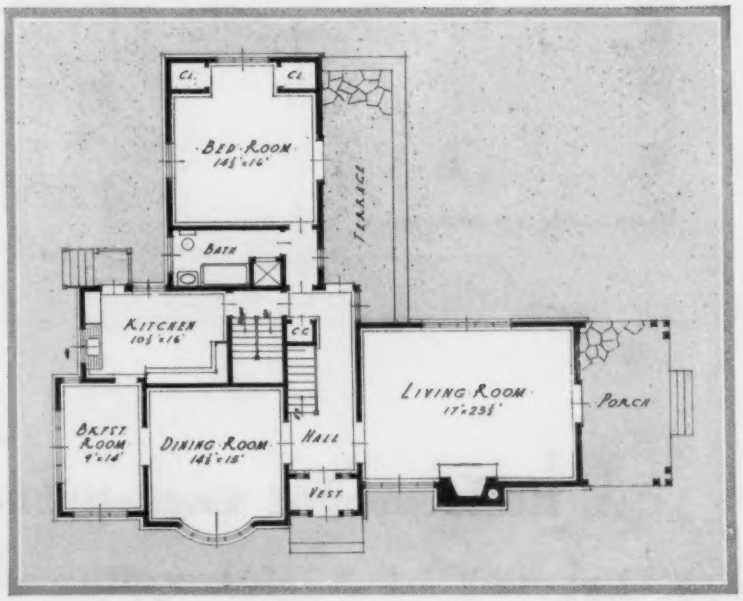
Kenneth Clark

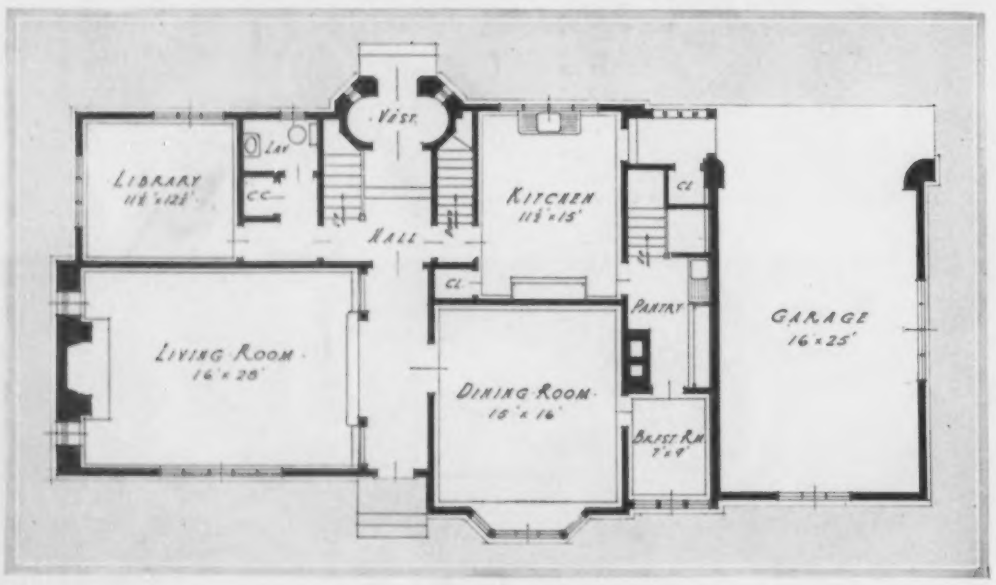
Stonework Brick And Stucco

Reflect A Hillside Setting

Picturesque interest gained from outcroppings of rock on the site of Karl Heisenberg's residence at Rouken Glen, Larchmont, N. Y., has been carried to the house itself through the diverse materials employed and their happy combining. The stone supported bow window and the uniquely designed entrance are two features of more than usual merit. Hunter McDonnell was architect



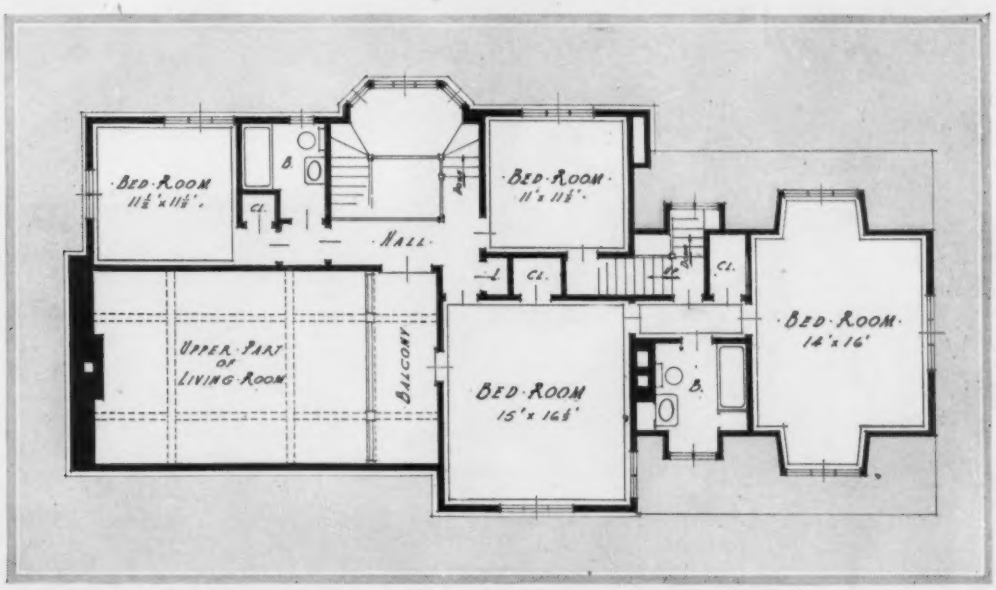




A rugged English type dwelling was wisely selected for erection on this picturesque site, at the crest of a hill. Above and on the opposite page are views of its terrace face. The home of George W. Jones, Rouken Glen, Larchmont, N. Y. Hunter McDonnell was the architect

A Residence Of English Character Erected In A Metropolitan Suburb

The central hall runs from entrance vestibule to terrace doorway. Kitchen and library face the front, while dining and living rooms look over the terrace and down the hillside. The two-story living room is slightly below the first floor level. Servants' rooms are in a third story



Fine Architecture Supplements

The Natural Beauty Of A Hilltop

Clematis alpina is one member of this fine tribe that makes a notable showing in a large rock garden where it can trail at will over the boulders. Its drooping blossoms are blue

Crocuses as a group are intrepid little beauties, coming into flower before the chill of winter has gone from the early spring air. Among the leaders in this annual advance is C. imperati

The Amenities Of Rock Plant Collecting

Louise Beebe Wilder

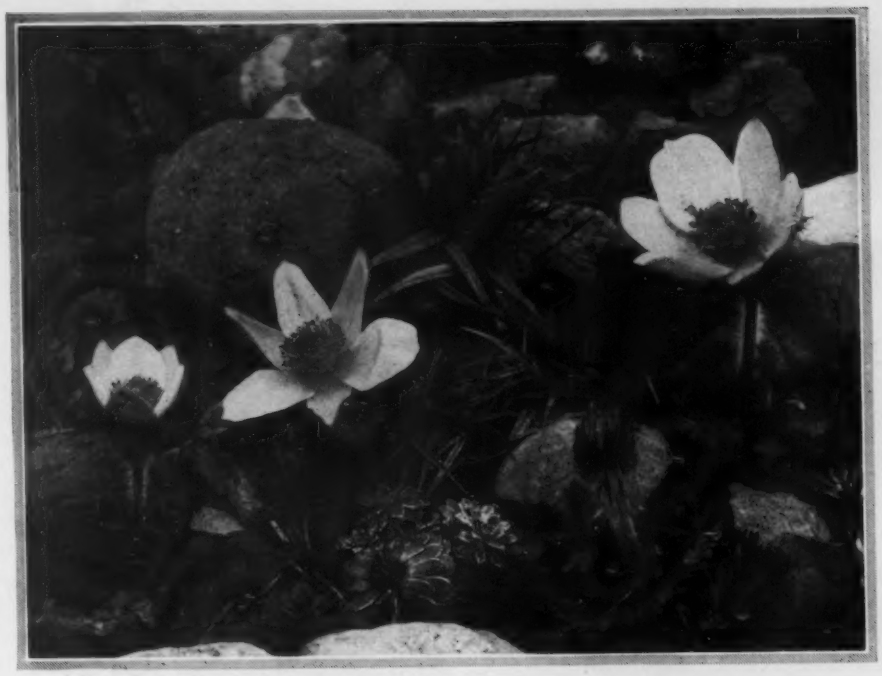
A ROCK gardener is inevitably a collector. Or perhaps it would be more correct to say that a gardener who has in him the collecting urge is certain to find in rock gardening, more than in other phases of the craft, an outlet for his especial interests and instincts. Ordinary gardening is a more or less passive occupation, but rock gardening is distinctly active and so is bound to appeal strongly to persons of imagination and of keen curiosities. In it they find full scope for their natural love of garnering and gathering, of searching out the obscure—in short, the pleasures of the chase.

Undoubtedly the uncertainty, the suspense, the difficulty all add immeasurably to the fascination of collecting anything, rare plants, no less than rare old bottles or first folios. But, whereas with the bottle or the folio you put it on a shelf, once you have got it, and aside from showing it to envious friends or selling it for more than you paid for it there is little more excitement connected with it, your rare plant goes on filling your mind with speculation and interest, for finding it is only the beginning. You have still to satisfy its whims and needs and make it live in a new and alien atmosphere. "Too much of a strain," say some, "too great a gamble." And of course for such

(*Continued on page* 124)

Reginald A. Malby

There are many Androsaces that are worthy rock garden subjects, and a fair variety of them is now obtainable in this country. One of the easiest and most satisfactory species to grow here is A. sarmentosa, shown at the right



Anemone vernalis, the wholly beautiful Lady of the Snows, is a real treasure which is worth long searching to secure. Along with many of the other jewels of its race, though, it is not at all easy to obtain from our growers

(Below) The best efforts of many good rock gardeners are flouted by Gentiana acaulis, while for others this choice flower will thrive like a weed. It is such plants as this one that make gardening a continuous adventure

Harry G. Healy

(Above) Perhaps the loveliest of the small Daffodils is N. bulbocodium conspicuus. This variety usually grows to about six inches in height and carries rich golden yellow blossoms of hoop-petticoat form above its rush-like foliage

In the garden of Clarence Lown, at Poughkeepsie, N. Y., the truly Alpine Auricula alpina makes itself quite at home close up under the shelter of the boulders where the soil is well drained and chip-strewn to conserve moisture

Opportunities That Await Gardeners Of California

Ernest H. Wilson, V. M. H.

CALIFORNIA of all States in the Union is most favored as a garden region, indeed, I know of no land where the potential possibilities of garden making are so great. With nearly a thousand miles of coastline, parallel ranges of high mountains, which effectually cut off the strong drying winds from the east, and warm interior valleys, its possibilities are limitless. In the South tropical plants flourish; in the North those of cool temperate regions are perfectly at home; on its higher mountains Alpine plants find a natural habitat.

So, where water is available, California can draw freely on the flora of the entire world for its garden making. Except the denizens of the steaming tropical forests there is little or nothing worthwhile but what the good people of California may enjoy when they wake up to the possibilities their God-given land affords! I am not without appreciation of the great variety of plants already growing there. I know that much of the world has been drawn upon to furnish the gardens of California with the plants they now possess, but the draft on the trees and flowers of the world has been slight and fortuitous rather than heavy and direct. With the exception of a few individuals California has done very little on its own behalf to introduce plants especially suited to its needs. As a fruit-growing State it is famed the world over and when garden makers put a little of the enterprise into securing ornamental plants that their compatriots have put into securing economic plants a new era will dawn.

THE COLLECTORS

In the interests of plant lovers in general and those of California in particular the world is much the poorer for the fact that the plant collecting renascence occurred during the latter third of the 18th and early in the 19th Century when gardens in California did not exist. Had they been in existence some thousands of plants now lost to cultivation would have been filling California with blooms of every description.

I do not wish to disparage what the lover of flowers has brought to pass in California nor infer that niggardly variety exists there, but I do want to emphasize the fact that in cultivation in Californian gardens there are less than one half of one percent of the plants that are worthy of being there. What that grand old Nestor of Californian horticulture, Mr. John McLaren, has accomplished at Golden Gate Park and elsewhere in the vicinity of San Francisco is an indication of the enormous possibilities California possesses. Golden Gate Park is more than a park; it is one of the fine botanical gardens of the world and its collections have been assembled by the enthusiasm, knowledge and ability of one man in less than fifty years. What Mr. McLaren has done for Golden Gate Park can be done for the whole of California on a much more extended scale when a similar genius arises and public spirit brings into being the much-talked-of botanical garden. That California has a botanical garden in name only and has no arboretum whatsoever, is by no means to the credit of a State wealthy beyond the dreams of avarice.

ORIENTAL PLANTS

Japan, its nearest neighbor, has furnished California's gardens with a rich variety of plants ranging from Cherries, Wisterias, Iris, Maples, Hollies, Conifers and many other plants, including the so-called California Privet. There are in southern Japan a variety of evergreen trees and shrubs, including such splendidly berried Hollies as *Ilex rotunda*, *I. integra* and *I. latifolia* and such noble evergreen Oaks as *Q. salicifolia*, *Q. gilva* and *Q. glauca* that ought to be widely known in Californian gardens. The Cherries of Japan are well known but it was my privilege to introduce a species that for the warm temperate parts of California is far superior to any other. This is *Prunus campanulata* which has hanging bell-shaped blossoms, rose-pink to red in color. It is native of the island of Formosa but is much cultivated in the south of Japan. Near Pasadena it flourishes and I understand that it is being planted as a road tree. The man to whom the Arnold Arboretum sent the seeds and who first flowered this wonderful red-blossoming Cherry is now dead but I hope that his successors carry on the good work. No more beautiful sight imaginable can be seen in late January and February than an avenue of this magnificent Cherry in full blossom.

A recent plant collection work in China has added a number of plants peculiarly suited to the climate of California. In this work it has been my good fortune to participate and today some of the finest evergreen Cotoneasters, Barberries and Pyracanthas in Californian gardens owe their origin to seeds which it was my privilege to collect in the heart of China. Another contribution that Californians appreciate is *Jasminum primulinum*. An evergreen Magnolia comparable with the American *Magnolia grandiflora* and named *M. Delavayi* which I collected in Japan ought to be widely grown in California and so, too, should the climbing evergreen *Clematis Armandi*, the handsome red-fruited *Photinia Davidsonae*, the Stranvaesias and such Hollies as *Ilex Pernyi*, *I. yunnanensis* and *I. Fargesii*.

Golden Gate Park has demonstrated that Rhododendrons can be grown and grown splendidly in California. China is remarkably rich in the evergreen members of this genus and there must be in California full fifty species of my own collecting

CHINA'S SUPPLY

Growing in England are more than three hundred Chinese Rhododendron species, the majority of which would flourish if introduced into California. But the wealth of China for Californian gardens has been scarcely touched. The woods and mountain slopes of its warm temperate regions hold hundreds of plants especially suited to the Californian climate. One magnificent group scarcely represented in western gardens is that of the great Laurel family. The genera Machilus, Phoebe, Cinnamomum, Litsea, Benzoin and their relatives are rich in

(*Continued on page* 122)

Climbing Plants For Many Situations

P. M. Koster

THERE is so much to be said about climbing plants that even when only touching on the subject we have to eliminate several classes in order to keep the material within the bounds of one article. With this in mind I remove from consideration, without further excuses, all climbing plants which are used as ground-covers, and also all climbing Roses, though I feel very much tempted to say where these latter should *not* be planted.

Climbing plants deserve a great deal more attention than they are receiving in our gardens. In every garden there is an appropriate place for some, somewhere. They form a different means of ornamentation from upright or trailing shrubs or herbaceous plants.

The woods offer an excellent place to study climbing plants; they grow there under natural conditions. *Ampelopsis quinquefolia*, the Virginia Creeper, rambles from rock to rock, attaching itself firmly by numerous disks which terminate small tendrils. Try to tear them loose from the rock and you will break the tendrils but not detach the disks. When a protruding point of the rock is reached, Ampelopsis will hang down like fringes or, if a tree is in reach, it will climb to the top of it. It has mostly five, sometimes three leaflets on a stalk; do not confuse it with *Rhus toxicodendron*, the Poison Ivy, which has always three leaflets, never five and has more shining and darker green foliage. Keep away from Rhus if you are sensitive to its poison, but admire it all the same!

Though less plentiful than Virginia Creeper, we will sometimes find *Bignonia radicans*, the Trumpet Vine, in the woods, ascending trees by means of aerial rootlets and dotting the woods with scarlet-red, trumpet-like flowers.

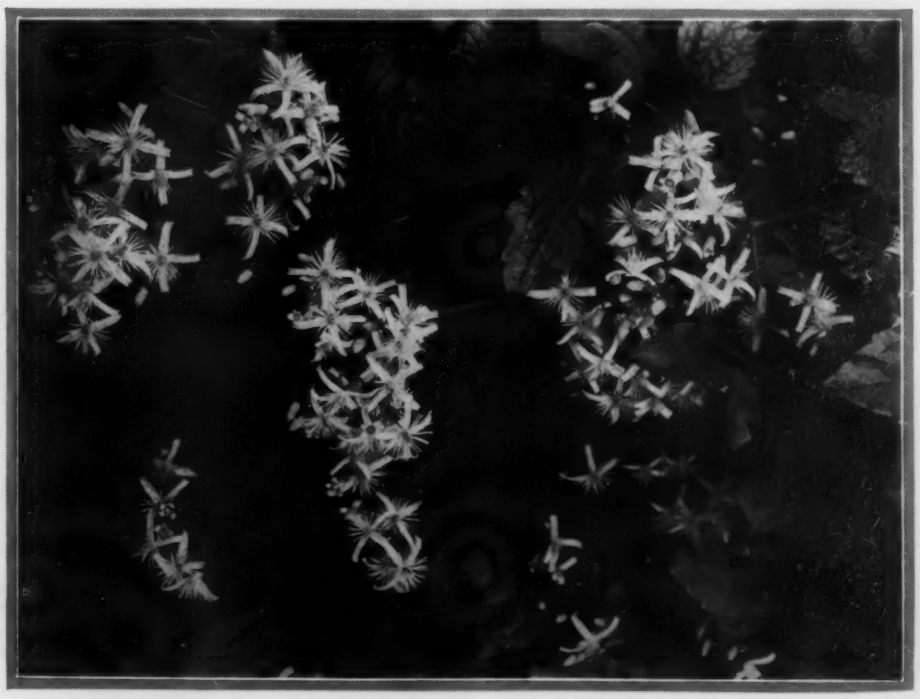
In another spot a plant works itself up by twining its slender branches around trees or shrubs, around and around, from left to right, higher and higher. It is *Lonicera sempervirens*, the Coral Honeysuckle, with its numerous flowers that are bright red outside and yellow within; it cannot hide its presence, especially in the morning or evening hours when its fragrance will tell

(Continued on page 110)

There are many large-flowered species of Clematis extremely showy in bloom but seldom seen in this country. One of the best is C. lauberstern shown above

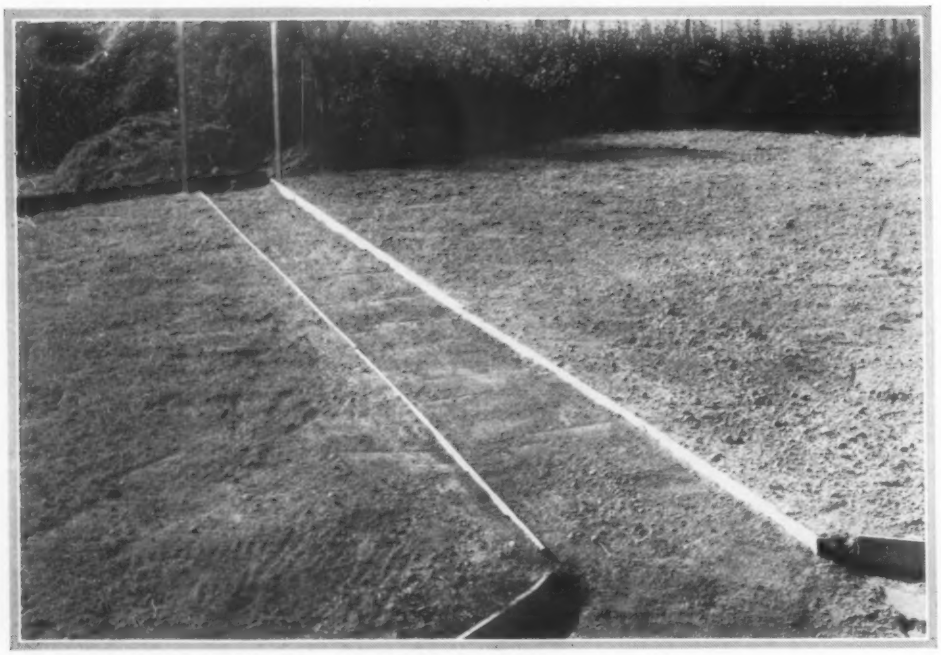
The Aristolochias are large-leaved vines with oddly shaped flowers, excellent for mass effects. Dutchman's Pipe is best known. The one shown is A. durior

Clematis jouiniana is a half-climbing type that generally grows to some six feet in height. Its bluish white flowers are tubular at first, finally spreading their sepals widely



How To Produce A Perfect Lawn

F. F. Rockwell



IT is only natural that we should read, think and talk about flowers more than we do about grass. But the fact remains that a really fine lawn will attract as much admiration, and give to its owners quite as much of the pride of accomplishment, as the most successful of flower gardens.

Just recently I had a rather interesting illustration of the truth of this statement. Among some scores of visitors to a newly completed garden, including the membership of one of the larger Eastern garden clubs, scarcely one failed to notice and to comment upon the lawn, although the other features of the place commanded attention only in proportion to the number of those who happened to be personally interested in that particular thing. Next to the lawn the Rose garden was of general interest, but as one of these observers remarked, "We cannot all have Rose gardens, but we all must have lawns!"

There is a certain fascination about genuinely good turf which it is difficult to analyze. The texture, as is the case with that of a piece of velvet, may have its appeal; the springy feel of it to the foot provides a sensation which is decidedly pleasing to most of us; like the surface of a pool, the perfectly smooth expanse gives a pleasant sense of restfulness. But in addition to all of these factors, I feel quite sure that turf which comes anywhere near being perfect is so seldom encountered, and is generally considered so extremely difficult to procure, that in itself it arouses our admiration when we do come across it.

The widely circulated story of the English gardener who provided his inquiring American visitor with complete and detailed information as to how to obtain a perfect lawn—in a hundred years—well illustrates the general belief concerning the difficulties of lawn making. It is a good story, but like many others not in full accord with the facts. It is, on the contrary,

The surface soil for a lawn should be loamy and well screened. It is spread evenly, boards being used to keep the wheelbarrow from cutting into the soft earth. Strips of scantling, set on edge, define the paths. When it comes to sowing, parallel lines of twine are guides to even coverage. Finally, the whole planted area is rolled

quite possible to produce a very presentable turf in a hundred days! Those beautiful bits of greensward which excite so many exclamations at the big flower shows are grown from seed in less than thirty days. While it is neither possible nor desirable to duplicate, out-of-doors, the same methods used for this purpose, they show what it is possible to accomplish with grass seed where conditions are favorable. You can give yourself and your friends a genuine surprise in out-of-doors lawn making if you are willing to undertake the following of a few definite but quite simple directions.

The suggestions for lawn making which follow probably not only do not coincide with much lawn-making advice which the reader may have come across, but at some points may go directly counter to usually recommended practices. They have proved successful with me, often under extremely unfavorable conditions. They are based not upon lawn-making traditions, but upon many years of practical experience, plus a business interest in observing results.

First of all, make your lawn in the fall if it is at all possible to do so. A good lawn can be made at other times of the year—despite the somewhat didactic statements to the contrary which are sometimes made nowadays—but fall planting has several decided advantages. The most important of these, perhaps, is that many of the lawn weeds, such as Crab-grass, the worst of all, and a number of other annual weeds likely to give trouble in the new lawn, usually germinate and grow most rapidly with the advent of warm weather in late May or early June. In the fall, they either do not start at all, or make a slow growth and are cut down by the first frost. The grasses, on the contrary, germinate quickly and grow rapidly in cool, moist weather. In the race for survival, therefore, spring sowing gives the advantage to the weeds, while fall sowing gives the advantage to the grasses. Moreover, seedling grass plants from fall sowing will continue to grow vigorously until the ground is actually frozen hard, and also "tiller" or spread out much more than they do in the spring. This helps to form a dense turf quickly, and this is the surest of all conditions for keeping out weeds. Another practical advantage of fall sowing is that there is usually more time to do the work thoroughly and carefully now than in the rush of spring.

Just how late in the fall may grass seed be sown?

That depends upon location, exposure, soil and seasons. Except in the extreme North, any time up to the middle of September will do under average conditions; with heavy soil likely to heave under alternate freezing and thawing, sow as early as possible. The lawn referred to at the beginning of this article was not planted until November 1st, but that was in southern New Jersey where the soil does not usually freeze hard until late in December. Generally speaking, it is safe to plant until six to eight weeks before one may expect the ground to freeze hard.

Even if operations can not be begun until so late that it will be inadvisable to sow the seed, it is of great advantage to prepare the soil in the fall. This makes it possible to get the grass seed in in late March or early April. Almost every spring there are a few warm days when planting may be done if the ground is ready. But if one must stop to prepare it, the opportunity is gone and it may be two or three weeks before the weather conditions will again make planting possible. Very early sown seed will have several weeks' start of the weeds, and this may mean all the difference between success and failure. Sloping ground, prepared in the fall, may be held in position against

(*Continued on page* 116)

The Garage And Its Construction

Austin W. Mather

Interestingly designed three-car garage of brick construction on the estate of R. W. Stokes at Charlotte, N. C. The chauffeur's quarters are in the second story, reached by the outside stairway shown. M. E. Boyer, Jr. architect

Tebbs & Knell

THE automobile, as it gradually developed from the novelty stage to become practically an essential of modern life, brought with it certain specialized housing requirements. These have grown from the point where any extra space in an out-building was considered sufficient, to the present time, when it might be spoken of as demanding the use of a specially prepared room in the house.

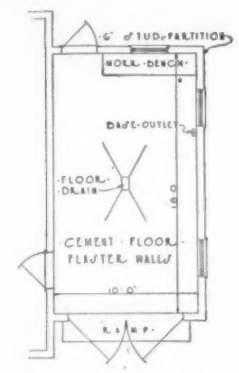
As was natural, our first garages were, usually, either part of a stable or an entire stable transformed after the new vehicle had supplanted its former occupants. Even when garages began to be built as garages, they continued to be considered as out-buildings. They were not even remotely thought of as a feature which might be brought into direct connection with the houses they did service for. As a matter of fact, the suggestion of such a possibility would have been scorned as an insane project, because of the fire hazard. The first generation of motor cars, of course, were constantly taking fire, with fatal consequences to themselves and the structures that housed them. Today, however, the fire risk in automobiles is an almost negligible factor—although every building that stores one should be safeguarded against it.

It was the heating problem which finally brought the attached garage into practical consideration. Cold motors in unheated quarters on winter mornings carried matters to a head; home builders began to demand that their architects design these places in such manner as to establish some sort of physical relationship between the garage itself and the heating center of the residence.

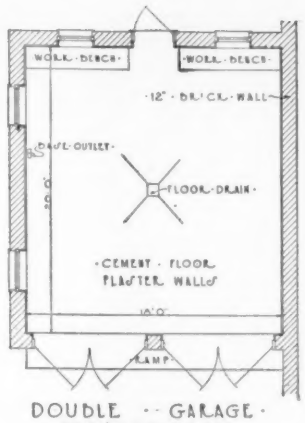
As with sleeping porches, the architects at first did not take kindly to this idea. It introduced an entirely new and foreign element into their design problem. The garage was a necessary evil, to be tolerated but not to be brought frankly into the picture. So they experimented with ways and means of hiding it in such subtle fashion as to keep it invisible except to those who approached the house directly along the drive. A considerable amount of time elapsed before the system of treating a garage as a component part of the design—as a balancing wing, etc.—became common.

Although the idea is not generally accepted in architectural circles, it is no novelty today to see an automobile entrance placed, without any effort at concealment, in the front façade of a residence. Many done in this way have been worked into the composition with most interesting results.

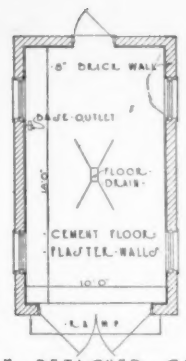
Thoughtful architects, after a time, began to find that with many houses erected on other than a flat terrain, the basement could be exposed sufficiently at some point to allow feasible space for a garage under the first story. And so we came upon what is by many considered the best possible solution for our problem. Using this system, no extra building, or even additional wing, need be put up, thus occasioning considerable saving in erection costs. Besides, the residence design is unhampered, except at



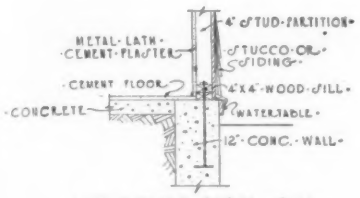
SINGLE GARAGE
ATTACHED



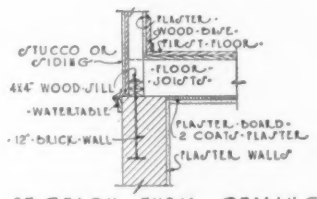
DOUBLE GARAGE
BENEATH FIRST FLOOR



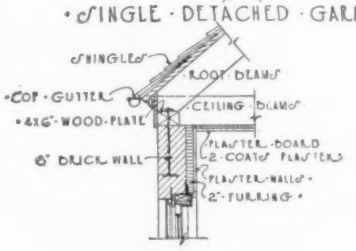
SINGLE DETACHED GARAGE



SECTION THRU SILL
WOOD CONSTRUCTION



SECTION THRU CEILING
SHOWING CONSTRUCTION OF FLOOR ABOVE GARAGE



SECTION THRU CORNICE

(Above) Typical floor plans for laying out garages of the three usual types. Below each of the plans is illustrated, in cross section, an important detail of its construction

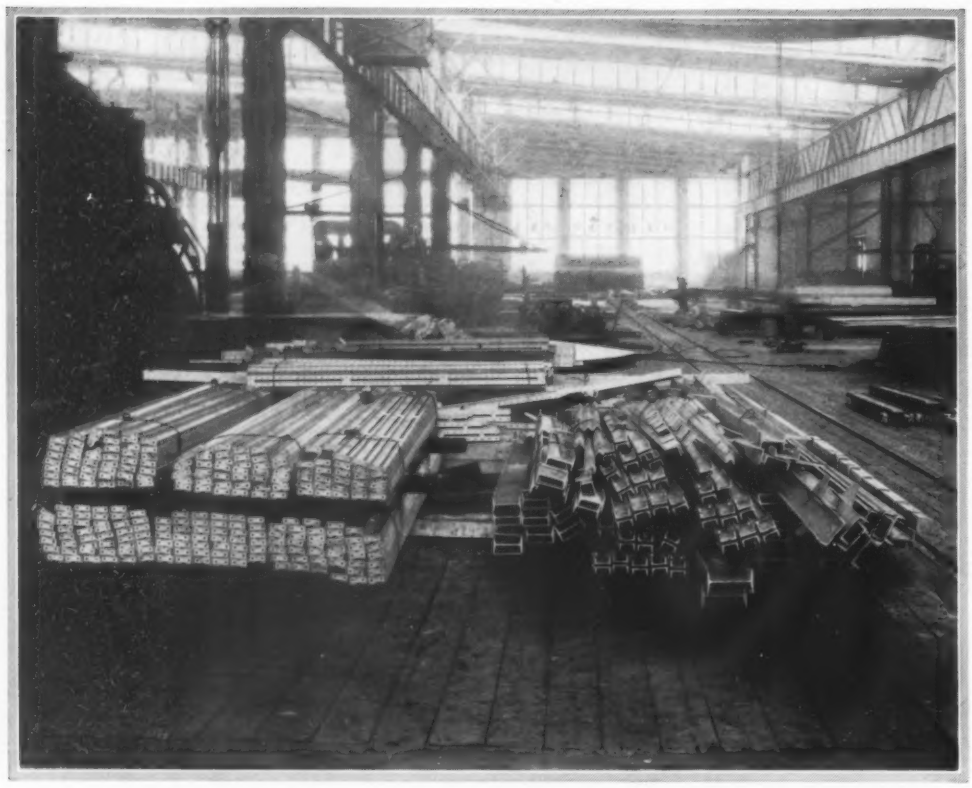
An example of a garage located in a house. The use of this wing is not apparent from the front. The residence of H. L. Hoyt, Great Neck, L. I. Julius Gregory, architect

George H. Van Anda

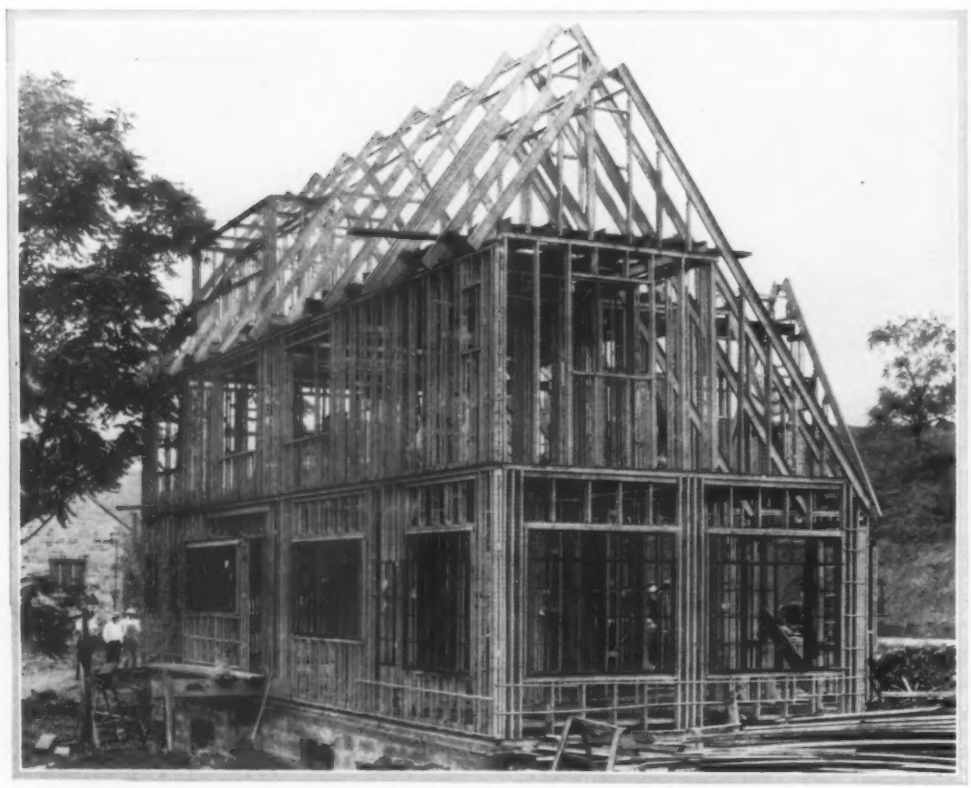
the immediate spot where the garage opens (and this, of course, is always easily screened by shrubbery discreetly placed), while heating is accomplished with the greatest possible ease and economy.

A few general rules apply to the design and construction of all garages, whether they be free-standing, a single unit of some residential structure, or placed in a basement. To begin with, they should be arranged so that adequate ventilation is assured. Then, the door opening for a single car garage should never be less than eight feet. Ten feet by sixteen feet is the minimum space required in a garage; eighteen feet will be much better, as it allows a small workbench and enough elbow-room to provide for its occasional use. All garage floors should slope about an eighth of an inch in every foot, toward a central grating over a dry well or barrel drain. Finally, municipal ordinances in regard to garage construction should be studied and con-

(*Continued on page* 108)



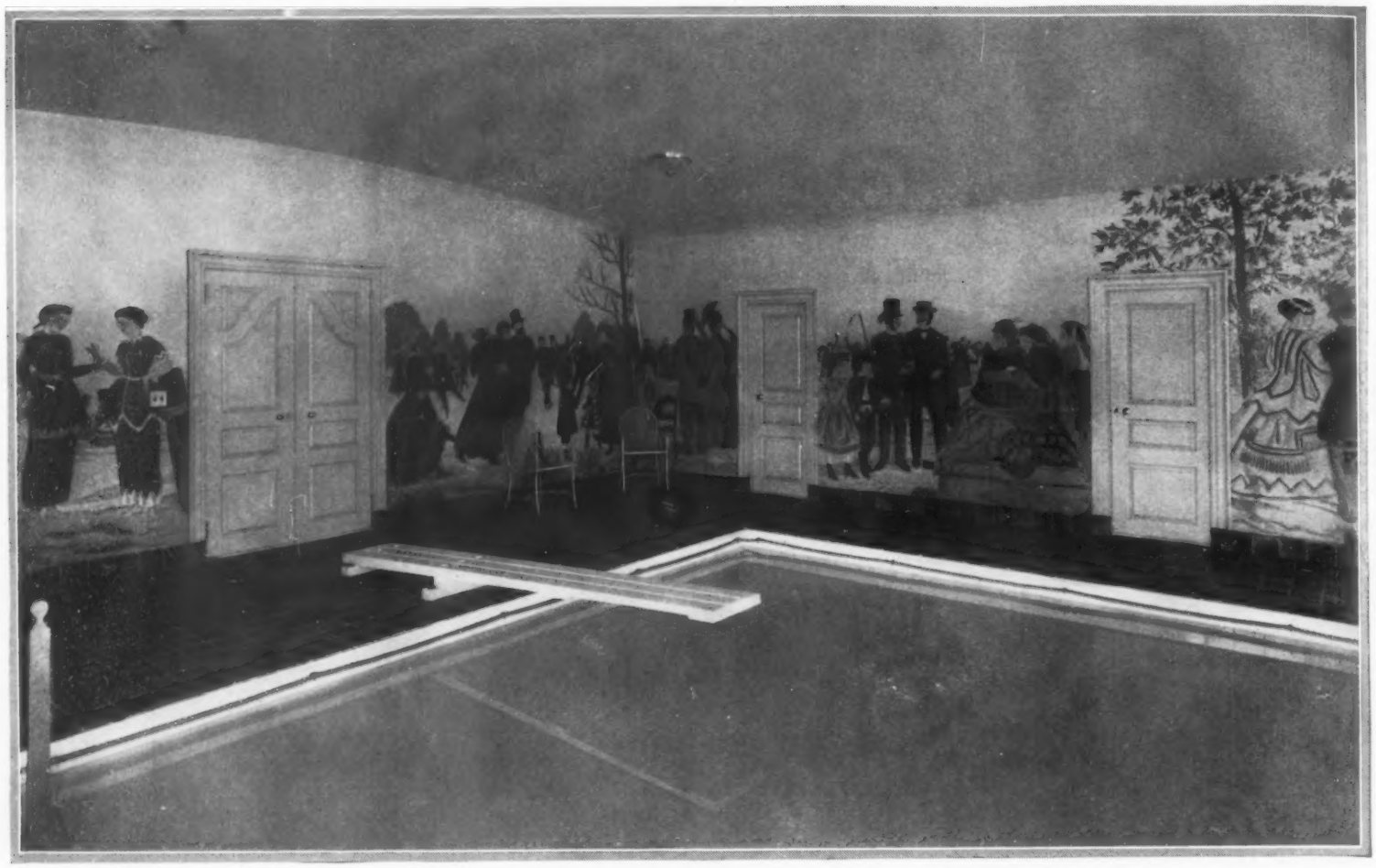
Skyscraper Methods Have Been Adapted For Home Building



The photograph at the top of this page shows the complete assemblage of steel girders, studs, etc., to be used in the erection of the house, as they are laid out for checking purposes just prior to shipping. Each piece is cut to exact size and marked in accordance with a plan which gives its position in the structure. The central view at the left illustrates the completed steel frame of the house ready for the next operation, which will be the application of lath to take interior plastering on one side and brick exterior facing on the other. The small photograph at the left depicts a workman in the act of applying attachment strips which will hold the wire lath and its backing to the steel framework. Lath already in place may also be seen. In the picture above, the fireproof cement base upon which the floor will be laid is being smoothed down. Note the wire mesh which holds the cement

Various Stages In The Erection Of A Steel Framed House

Masons are shown laying up the exterior wall at the top of the page. A union between the fibre-backed wire lath and the wall is created by a heavy layer of mortar laid between, thus giving the wall the added support of the steel mesh. The center photograph was taken when the exterior walls were in a semi-completed state. Exterior lath completely surfaces the first story and the brick walls are partially laid up. Any wood boards discernible are merely construction aids and have no place in the actual structure. The photograph directly above pictures the interior plastering. Between the plaster backing and the backing which supports the exterior wall, a dead air space provides insulation. At the right is the front face of completed residence. No features betray the fact of its steel contruction. The home of W. H. Shaffer, Jr., Pittsburgh, Pa. The architects were Lyon & Taylor



Drix Duryea

A delightfully original wall treatment is the outstanding feature of this indoor swimming pool where murals done in the manner of Godey prints depict a panorama of American sports in the Sixties. The costumes for the most part are rendered in Victorian colors—mulberry, mauve, cerise, ultramarine, moss and acid green, against a green, buff and gray landscape. The pool is on the Long Island estate of Dr. John A. Vietor and was painted by Louis Bouché

Murals In The Manner Of Godey Prints Enliven An Indoor Pool

George D. Haight

In southern California where an almost tropical sun constantly drenches the landscape with vivid light, the romantic architecture and decoration carried to Spain by the Moorish conquest has been found ideally appropriate. This is the patio in the home of Mrs. Dorothy D. Cotton at Montecito. Roland E. Coate, architect

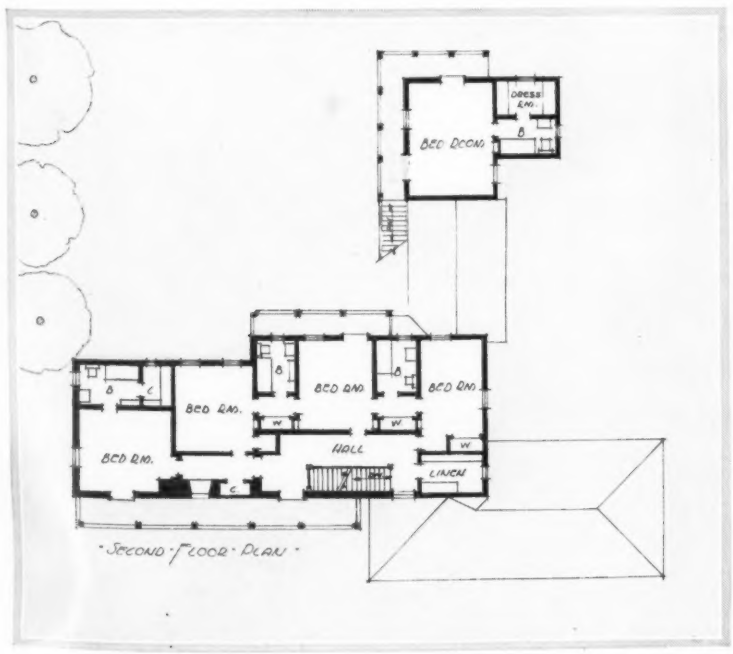
Spain Of The Moors Finds A Renaissance In California

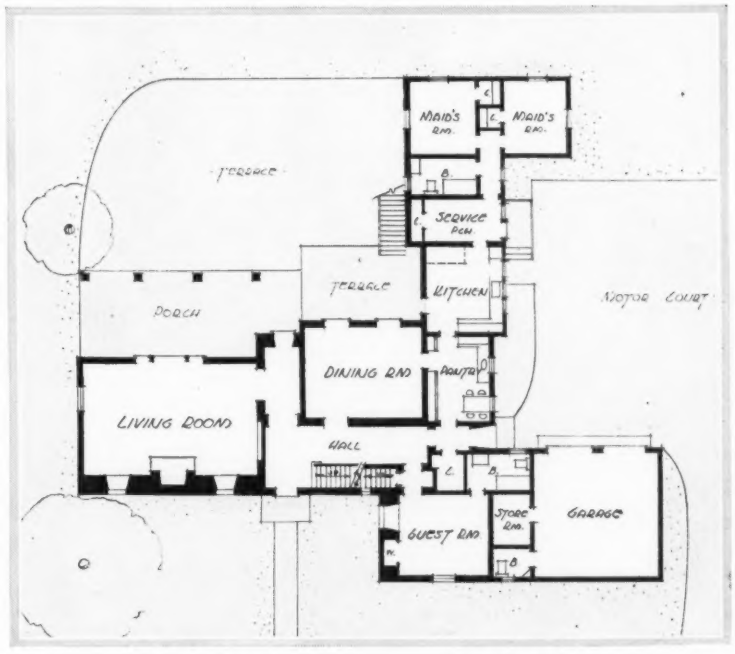
George D. Haight

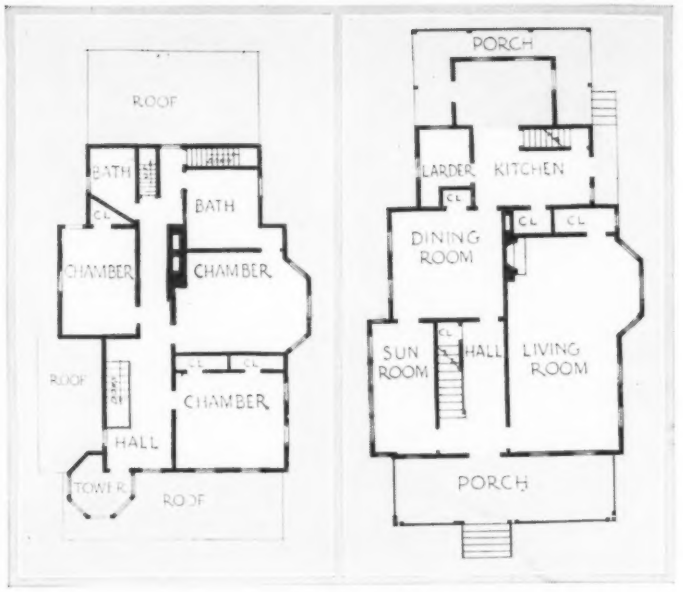
Porches and shadowed terraces are the real living rooms of Mrs. Dorothy D. Cotton's residence at Montecito, Cal., and the interior of the house is occupied only during inclement weather. Plantings achieve a splendidly natural effect and fit in well with the informality of the architecture. Roland E. Coate, architect

Broad Porches And Overhanging Roofs Offer Refuge From The Summer Sun

All the principal rooms offer individual access to the out-of-doors—on the first floor to terraces and on the second to galleried porches. Above is the front façade. The large photograph on the opposite page shows the stone-paved porch just outside the living room



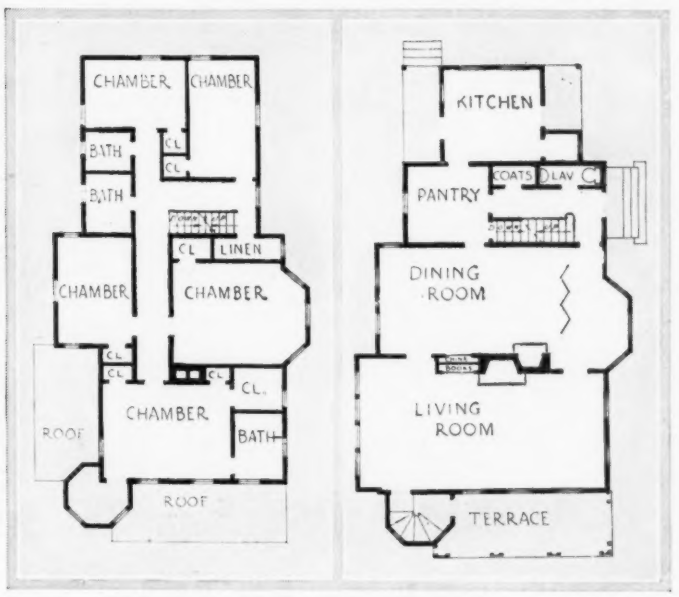


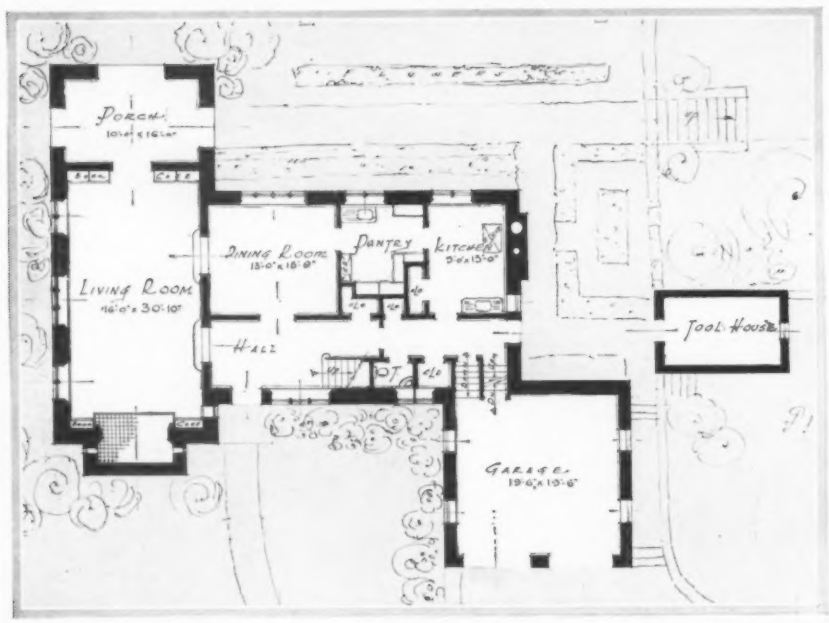


At first glance one might be tempted to say the only solution for this Victorian dowd was a profitable fire, but the architects, Howard & Frenaye, spared it this oblivion by making the turret a tower, cutting back the gable, adding a seemly porch and building a terrace

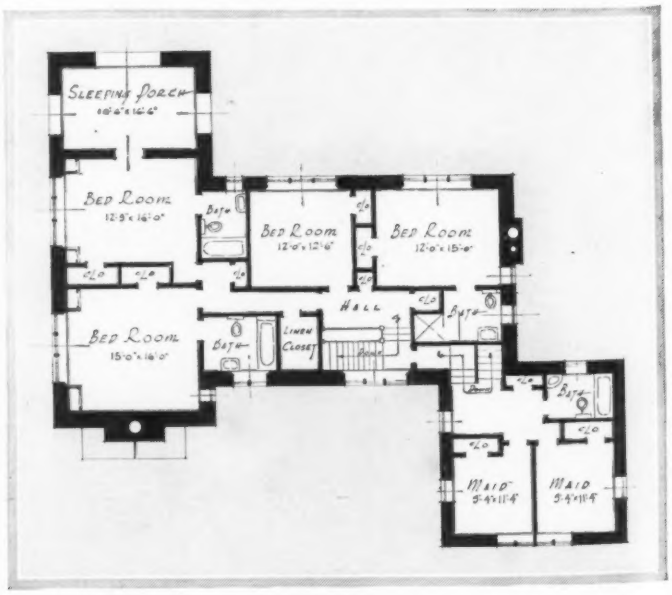
A Dowdy House Has Its Face Cleverly Lifted

In remodeling the house, which is the residence of Wilder Gutterson, at Southport, Conn., the architects made some radical changes in the room arrangement, both upstairs and down. They also turned the main entrance to the side and marked it with a door of dignified lines. Floor plans on the opposite page show the residence before it was reconstructed. Below are plans of the house after remodeling



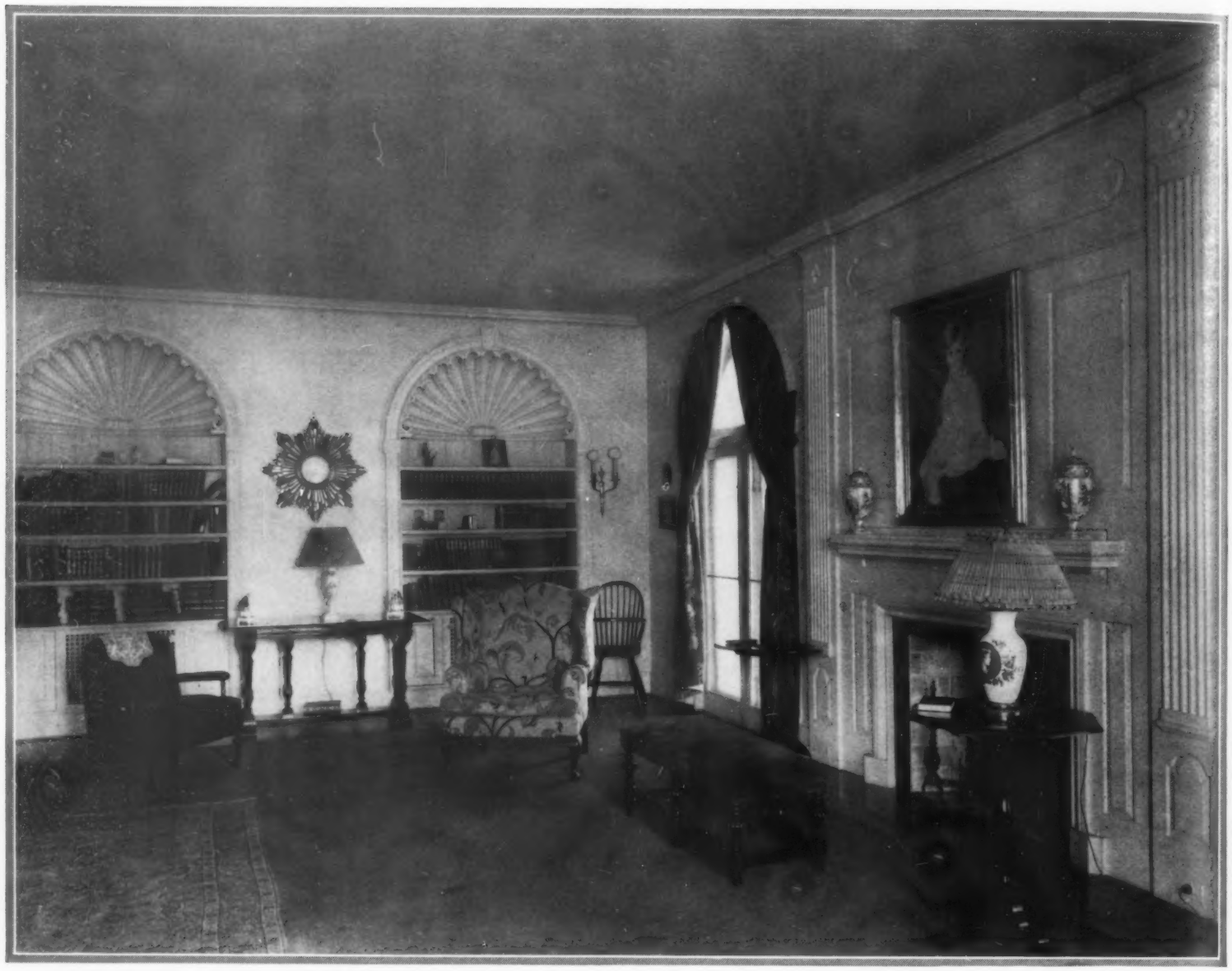


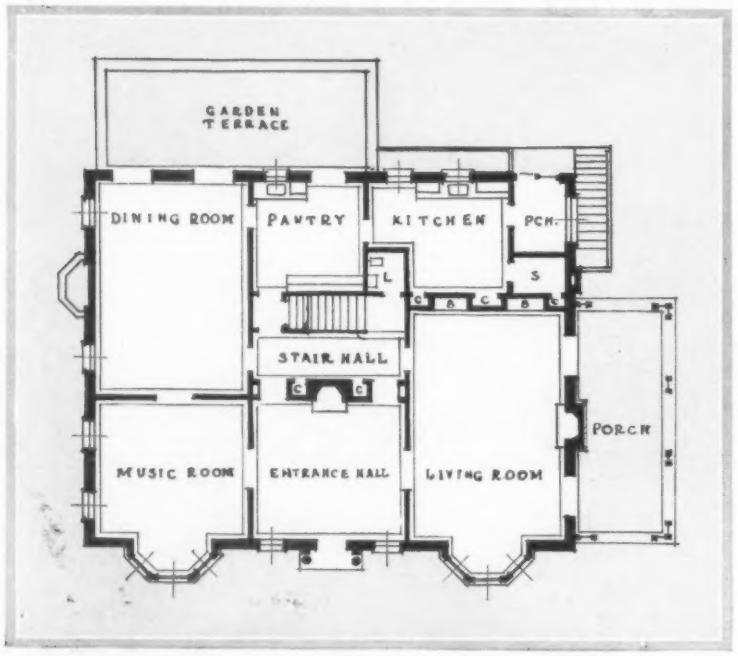
The smaller English manor house inspired the design for the home of Benedict Farrar at Edgewood, St. Louis. Light gray and yellow native stone was used for walls; steel sash with leaded glass for the casement windows; slate in variegated tones of green, purple, yellow and tan for the roof; and the wooden doors and window frames are stained a deep brown

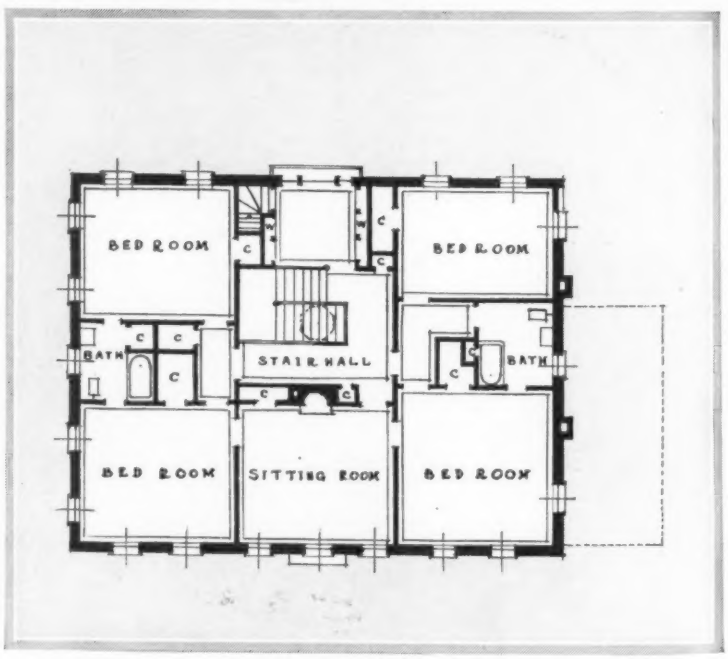


An Architect's Home Built In St. Louis

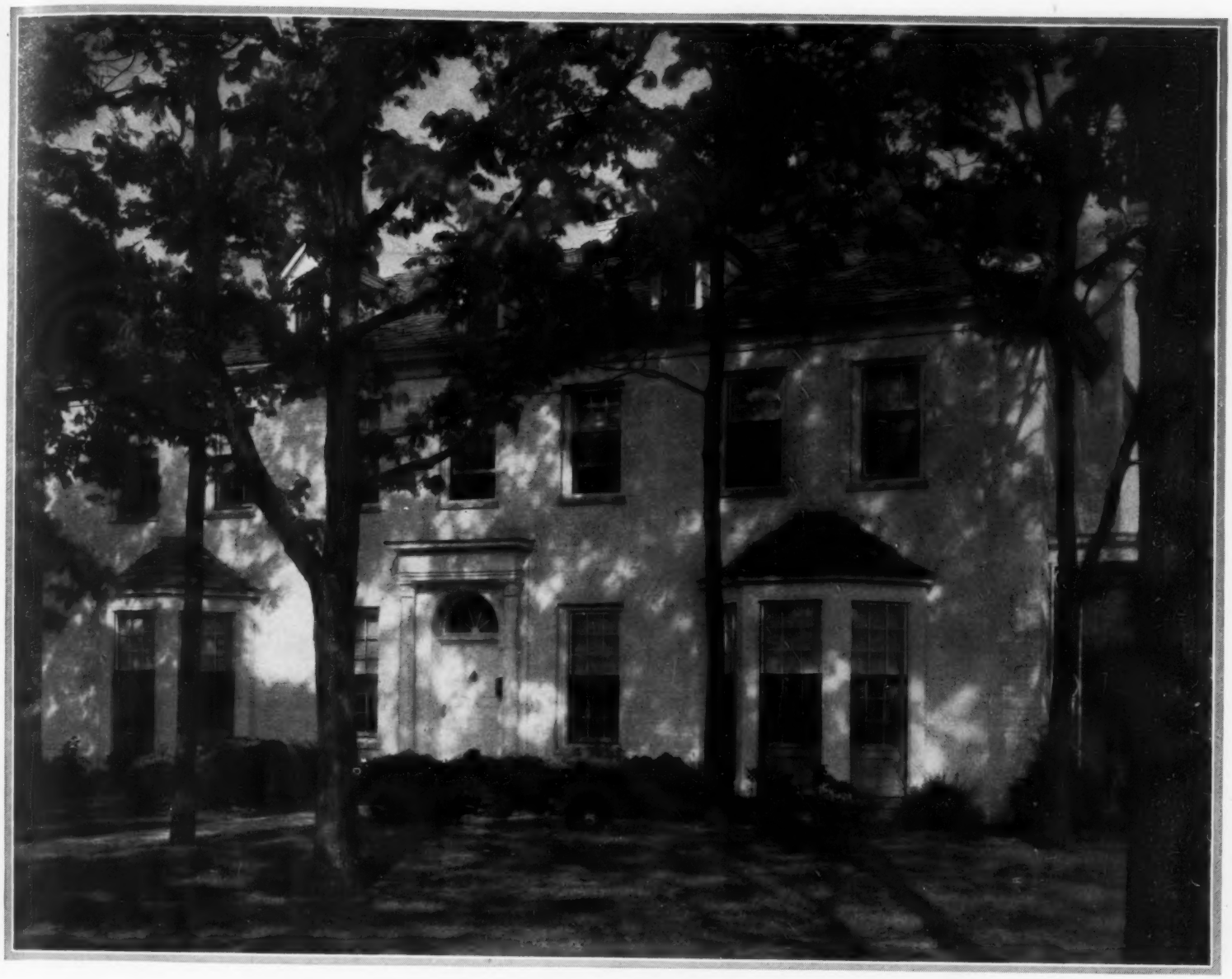
Four master's bedrooms and accommodation for two maids are found on the second floor. On the ground floor the location of the garage offers an interesting and practical solution. Study & Farrar were the architects and Simonds and West designed the garden and planting



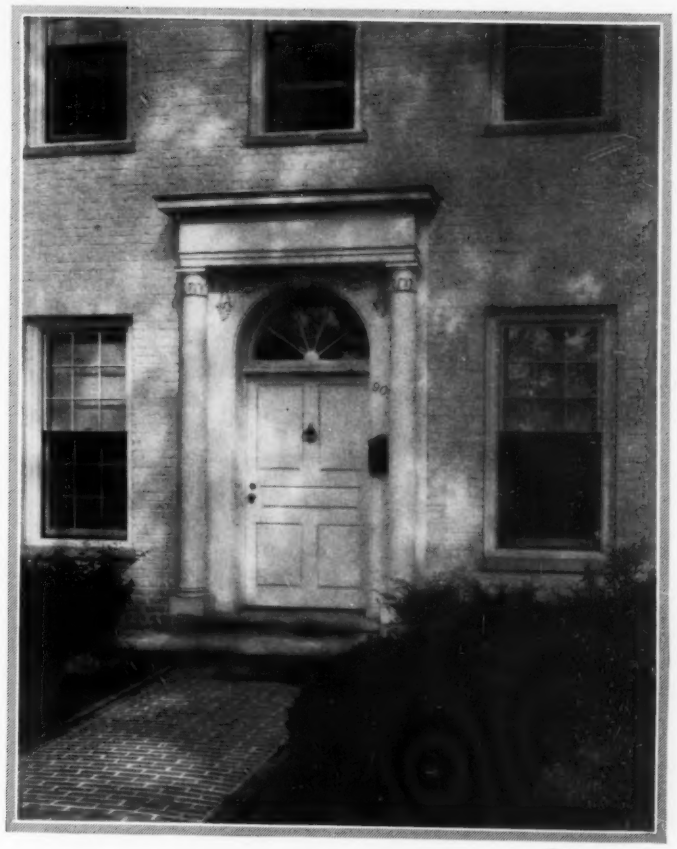




A Georgian House For North Carolina



The home of R. W. Stokes at Charlotte, N. C., is a simple dignified application of the Georgian design to a house of medium size. Its entrance portico is flanked by balancing bay windows, and in the rear the garden terrace is enriched by grape patterned roof supports in cast iron. Architectural dignity appears in the background of the rooms. M. E. Boyer, Jr., architect



Tebbs & Knell

The Gardener's Calendar For January

This Calendar of the gardener's labors is planned as a reminder for taking up all his tasks in their proper seasons. It is fitted to the climate of the Middle States, but may be made available for the whole country if, for every one hundred miles north or south, allowance is made for a difference of from five to seven days later or earlier in the time of carrying out the operations. The dates are for an average season.

First Week

THE field of horticulture is such an astoundingly vast one that enthusiastic gardeners, unless they are possessed of rare discrimination, are more than likely to find themselves wandering in its midst without knowing quite where they are going. It is this situation which gives point to the excellent advice, often given but always worth emphasis, to specialize. By taking up one or two fresh plant families each year, and working with them intensively, one gains a thorough and cumulative experience which is invaluable in separating the wheat from the chaff.

In practical matters of the moment the care of Christmas gift plants in pots holds a prominent place. Coming from warm, humid greenhouses, as they do, these popular presents find ordinary living room conditions a rather rude jolt. The shock of the change will be minimized, and the life of the plants prolonged thereby, if their foliage is given a daily sprinkling with cool water to lessen the inevitable drying effect of the normal room air.

Another precautionary measure, though of a different sort, is the inspection of the place where the Dahlias and Gladioli are stored, to make sure that it is neither too warm nor in danger of freezing in bitter weather. A temperature in the forties is ideal for both of these standbyes throughout the winter.

And while you're down in the cellar, take a look at the Apples, late Pears and other stored fruit. If you find a single one that is spotted or shows any sign of decay, throw it out at once. Rot is a trouble that spreads rapidly to perfectly sound fruit, once it gets started.

Second Week

OUT-OF-DOORS, there isn't much to do except wait for spring, unless it be such tasks as tree pruning and spraying. This does not mean, though, that you are to go around with your eyes shut, for winter is a time for observation and checking up on a number of things which may go wrong.

The conditions inside the coldframes are one of these, especially where young perennials being wintered there are concerned. There is a chance that mice may have effected an entrance and are making merry among the plants, or some heavy rain may have seeped in and sheathed the flats with ice. It is well, therefore, to lift a sash and see that all is well.

A simular situation applies to the guards which were put up last fall around the young fruit trees as a protection against the bark-gnawing of rabbits hard pressed for food. If any of these has slipped out of position, readjust it now.

And then there are the windbreaks and sun shields—burlap, boughs or whatnot—which protect the Rhododendrons and other evergreens from winter damage. Exposed as they are to the full boisterousness of the gales, these safeguards are subject to strain which often calls for attention.

Cold work, this, but not without its own immediate reward. For while you are out around the grounds you have an excellent opportunity to study the buds of many kinds of woody plants, patiently awaiting the arrival of warmer days. Lilac, Forsythia, Dogwood, Rhododendron, Hardy Azalea, Apple, Andromeda—as an antidote for the gardening blues these deserve recommendation.

Third Week

THE mention of dormant flower buds on shrubs and trees, made last week, leads naturally to a pleasant sequel. Small branches of very many of these plants, especially the deciduous sorts, will blossom in the house within a few weeks, if they are cut now and kept in water in a sunny window. The number of species that will respond to such treatment is considerably greater than most people suspect; in fact, it can almost be said that any spring-flowering woody plant which forms its buds before autumn can be successfully forced after the first of the year.

When a stormy week-end comes along an hour or so can be profitably spent in checking over the garden tools, implements and general supplies, with a view to the coming season's needs. Take a pad and pencil with you, for there is no time like the present for making out a list of what will be needed when outdoor work starts.

One of the things that every gardener should have is a first-class trowel. Not one of the shoddy, department-store kind whose back is broken by the first tough root it encounters, but a real, manly trowel with a heavy blade and solid steel shank and collar that comes well up over the hickory handle. Such a tool will do wonders in strong hands, and it won't break. Even though you use it for uprooting stones and transplanting from the woods, it will last for years.

And you really ought to have, also, a long-fingered hand weeder for cultivating close around vegetable plants as well as flowers. The ordinary "claw" type is all right in its way, but it doesn't reach deeply into the soil.

Fourth Week

EVEN though you may not be the sublimated soul of neatness, ordinarily speaking, practical considerations should be sufficient to lead to the building of a set of bins and shelves wherein and whereon the paraphernalia of a gardener's workroom can be kept in some semblance of order. Such loose materials as potting soil, peatmoss, lime, bone meal and many other essentials have a way of getting spilled hither and yon unless they are confined by solid boards, while labels, twine and a lot of such small items need shelves to keep them in sight.

Nor should the saw and hammer be hung up when the big bin and shelf job has been finished, for you are perfectly certain to need more flats for seed sowing and transplanting than you now have. Half-inch wood for sides and bottoms, and three-quarter-inch stuff for the ends, will give needed substantiality. Let them measure about 15″x18″x3″ when finished, and allow about ¼″ spacing between the bottom strips for drainage.

When the time comes to put these flats to actual use as seed containers, you will do well to provide a sprayer instead of a watering can for moistening the soil. Even the finest rose on a can will flood or wash tiny seeds unless used with extreme care, and this would mean lessened germination. A sprayer eliminates such danger.

Still looking forward, investigate the opportunities for buying very young conifers for growing in the home nursery. Several concerns now offer these for spring delivery. They provide a way of building up a plentiful supply of good evergreens at slight expense.

Old Doc Lemmon Said Just The Other Day—

"Wal, sir, the big row 'tween Jake Hopper an' Lem Tilberry is all over—Justice Pettit he settled it in court 's afternoon, an' he settled it good!

"The hull thing started when Jake begun sellin' gas'line out'n his yeller pump for a cent a gallon less than Lem done out'n his red one. 'Twarn't long afore Jake was gittin' all the local business, for a cent a gallon is a nickel for five, an' thet counts up when a man hes as many as a dozen customers a week.

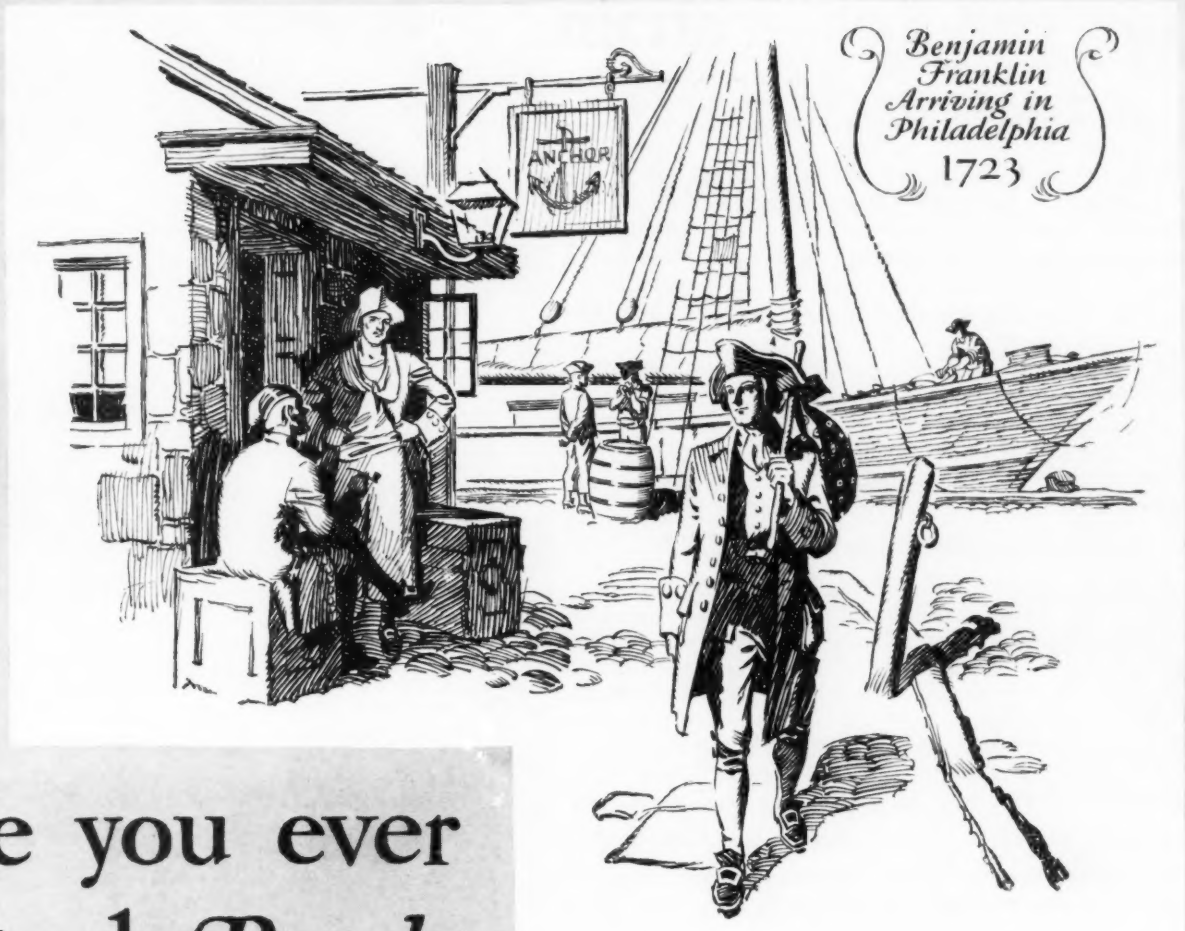
"Wal, the price war hedn't been goin' a day when Lem started growlin', an' the more he growled the more folks went over to Jake's barn to git their tanks filled up. By the time Sat'day come Lem was bellerin' like a June bull, an' when him an' Jake met in the Post Office thet evenin' he b'iled over. 'Ye gol-dinged hoss thief!' he yelled, shakin' his fist under Jake's nose. 'If ye warn't sech a measly old skeleton I'd bust ye into the middle o' next week!'

"Now, Jake Hopper, even if he is goin' on seventy-five, ain't the man to let nobuddy talk to him thetaway, so in a jiffy he'd peeled off his coat, laid his false teeth on a shelf, spit on his hands an went at it.

"Man, whut a scrap! Seventy-five ag'in sixty-eight, an' nothin' barred! Them two old squ'r'ls fit all over the room like a couple tomcats, an' out into the road an' back into the room ag'in. Must've been ten minutes afore Lem fetched Jake a wallop in the pit o' the stummick thet knocked the wind plumb out'n him, an' then grabbed the false teeth an' stomped 'em to smithereens an' went staggerin' off home cussin' a blue streak.

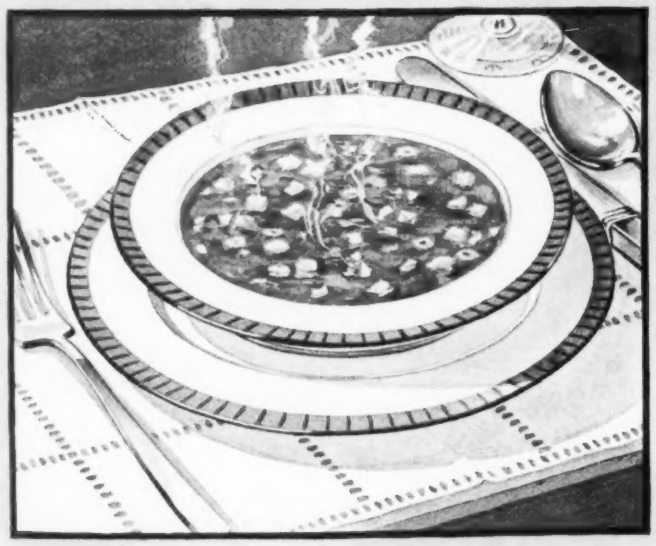
"Wal, as I was sayin', the case come up 's afternoon, an' after he'd heared the ev'dence from all of us Justice Pettit he banged on his table for order, scrouged up his face like a jedge allus ought to an' says:

"'It is the verdict o' this Court,' he says, 'thet whereas the duly sworn defendant hed the right to bust the said complainant in the stummick or commit onto his corporal body any other damage thet he was man enough to commit, an' whereas the said complainant hes already got consid'able satisfaction out'n the black eye he give the defendant, nevertheless the aforementioned defendant hedn't ought to hev smashed them teeth. In the opinion o' the Court, false teeth are private property same as a man's wife or a set o' harness or a fish-pole, an' nobuddy else ain't got no right to touch 'em 'thout permission. Hence, therefore an' to wit, the Court sentences this here defendant to pay unto the said complainant the full value in cash money o' thet dental set whut he stomped onto the floor o' the Post Office—I don't care if it comes to as much as twenty-five dollars!'"



Have you ever tasted *Real Philadelphia* Pepper Pot?

A Man's Soup



What a wealth of tradition surrounds Philadelphia Pepper Pot, that favorite soup of the proud old Colonial Philadelphia aristocracy! Truly, there's a touch of genius, a pioneer ruggedness about this famous old American soup that no other soup possesses.

If you have not yet enjoyed this famous old delicacy, there's a treat in store for you in Campbell's Pepper Pot, blended by Campbell's special Pepper Pot cook from a favorite old Colonial recipe.

A rich stock, velvety smooth and bland, brimming with pieces of delicious meat, diced potatoes and carrots. Seasoned just so with ground whole black peppercorns, savory thyme and marjoram, fresh parsley and sweet pimientos. And teeming with wholesome macaroni dumplings.

Here's a soup your appetite remembers, truly a dish for hungry men! Your grocer has it. 12 cents a can.

LOOK FOR THE RED-AND-WHITE LABEL

EAT SOUP EVERY DAY AND ENJOY A DIFFERENT SOUP EACH DAY

TESTS FOR INTELLIGENT PEOPLE—A SERIES

How can a chair attain *a value of* $8500?

WHEN a chair is so distinguished in craftsmanship and so graceful in proportion that it wins the admiration of generation after generation of connoisseurs, its value continually increases. The Gillingham chair, for which Danersk paid $8500 at the sale of the Reifsnyder collection, is typical.

Danersk craftsmen, in re-creating this chair, have faithfully followed each minute detail of the Gillingham piece, and have captured the same rare beauty which gives ever-increasing value to the original.

Would you like to see what an $8500 chair looks like? Pictured below is its exact counterpart, the Danersk Gillingham chair—and the pleasure of owning the Danersk piece calls for only a very moderate expenditure.

Who was the "American Chippendale"?

James Gillingham, born in England more than one hundred and fifty years ago, later a resident of Philadelphia, was not only the foremost American chair-maker of his time, but also America's leading exponent of the Chippendale style. The unusual beauty of proportion and subtle refinement of carving, characteristic of his chairs, are faithfully preserved by the Danersk Scotch and English craftsmen.

How can you recognize hand work in chair carving?

The back, arms, legs, and other sections of an ordinary chair are carved separately — *before* they are assembled; this means that the carving of each section must end abruptly at the joint. A truly fine chair, such as the Danersk Gillingham pictured below, is carved *after* the chair has been assembled, thus permitting the carving to flow over the joints in a continuous, uninterrupted and beautiful design.

Together with hundreds of other Danersk pieces for every room of the house, the Danersk Gillingham chair now stands in our showrooms. Come in and see it; not only will you be pleased with its pedigreed beauty, but pleasantly surprised at the moderateness of its price.

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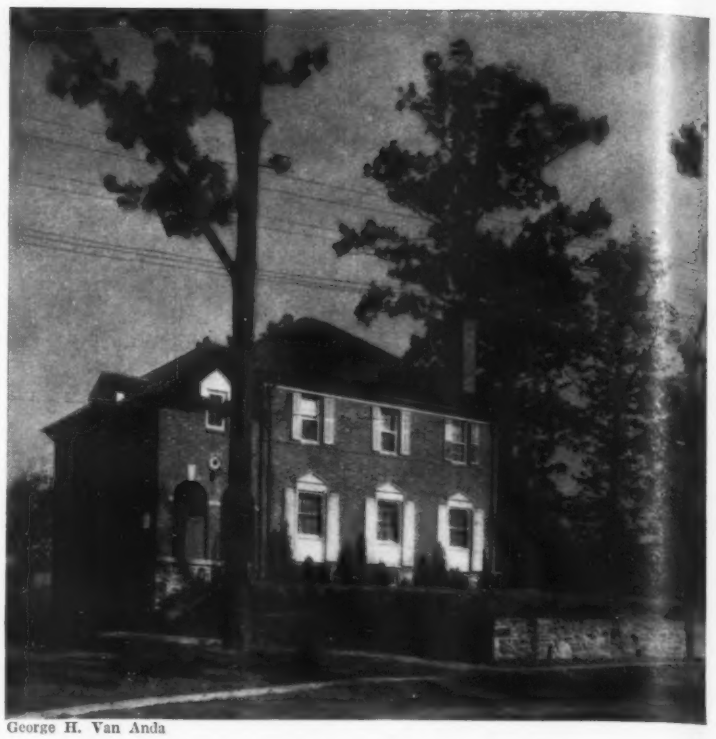

George H. Van Anda

A brick house like this one at New Rochelle, N. Y. immediately suggests that the owner likes to have things neat, orderly and simple. Lawrence Loeb was the architect

The Romance Of Architecture

(*Continued from page* 77)

An original design does not suggest an architect who is endowed with more than his share of originality, but rather suggests an owner whose ideas do not run along conventional lines. An intimate acquaintance with such a client will inspire an architect to heights of originality which he may never before have expected to attain. Originality is the basis of progress in architectural art. Thus we may appreciate how closely the layman—the house-owner—is related to the advancement of architecture in this as in any other country. As we today stand on the threshold of a new era in all the arts in which we may see the development of a style of architecture which will be distinctively our own (for our uncanny adherence in the past to period ideas has caused us to put aside any hopes that we may have possessed before as to such a possibility) the architects look to the people of these times for their inspiration.

Nor must we forget the part that building materials play in architecture. They are the tools by which the architect's design is given form and shape. His designs are limited by the limitations of available materials. A new material may permit of new ideas. But the old materials are still capable of new forms. And new forms, as I have suggested, are inspired by new views of life and new methods of living, which also encourage new means of production and new fields of craftsmanship, allowing a greater expression of originality at every step.

Let us not, then, overlook this hu-

(*Continued on page* 106)

Wurts Bros.

The home of A. E. Wheeler, Fieldston, N. Y. shows original ideas of design and detail carried out in stucco, an old building material. Julius Gregory, architect

A DESIGN AND COLOR EXPERT ASKS A QUESTION

MISS VIRGINIA HAMILL, NOTED DECORATIVE ART CONSULTANT OF NEW YORK

"WHY should blankets—of such prominence in the bedroom ensemble—be so dull and drab, so uniformly uninteresting?" asks this famous style and color authority

—and answers it herself

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The Romance Of Architecture

(*Continued from page* 104)

man side of architecture. I have tried to impress upon you the close relationship of the architect to the house-owner. We spend a good part of our lives in our homes; not as much as we used to and perhaps it would be better for us if we spent more time there. But our daily rounds take us, after all, from one building to another. We leave home in the morning to go to our office; we go out to a restaurant for lunch; we stop at the golf club, perhaps, in the late afternoon, dine at a hotel, and then to a theater before going home. We are confronted with architecture at every turn. The success of our day, although we seldom stop to think of it in this light, depends largely upon the success with which the architects of the various buildings that we visited solved their several problems.

The romance of your life—and the story of the life of each one of us is a romance in a greater or lesser degree—is the very backbone of the design of all types of buildings. The design of your office building had its romantic side, for surely there is romance in your business life. The architects who were presented with the problem of designing the restaurant, the golf club, the hotel and the theater, which you, yourself, visited in one short day, will all agree that romance in architecture is not only a reality, but lends to their own problems a most fascinating turn.

Why attempt, then, to understand the technicalities of building? Why give weary hours trying to fathom depths that hold no interest for you? That is the scientific side of architecture which the architect himself only need comprehend. This is not architecture as you behold it in your daily rounds. You need not think of architecture as a series of plans, elevations and sections. You are much more concerned with the size of the living room, the accessibility of the kitchen to the dining room, and the fact that your maid can get to her room on the second floor of the house without passing through your living room.

My advice, then, is to familiarize yourself with this phase of architecture. You will not only enjoy your new house more after you are in it, but you will take an interest in seeing its design developed. For you will actually have a part, and a very vital part, in determining the design. You will find, too, that you will be more free to express your opinion, you will exercise greater interest in the selection of materials. For the result will be more to your liking because it will more definitely reflect your individuality. And the architect, too, will be more pleased because he will be inspired to a greater expression of his creative ability.

Flower Rooms In City Homes

(*Continued from page* 68)

iron nails, and on the opposite wall the opening is arched and fitted with iron gates in a design of scrolls and arabesques. The one wide window hung with a Venetian blind is flanked by iron brackets fastened to the wall for holding potted plants. On the wall opposite the window is a small tiled fountain of brilliantly colored Spanish tiles surrounding a turquoise bowl set in an imitation stone floor, neutral in color. Around the fountain are clustered tall plants and on either side is a pair of low Italian chairs.

For one not interested in a garden room typical of Italian decoration, the deep bay window of an English type dining room in an old New York house offers many interesting ideas. This has four windows with transoms, and as the house was built some time ago the transoms are fitted with curved blue glass—that deep blue that gives the effect of moonlight when the sun shines through. The windows are hung with blue gauze on draw cords and fitted with charming iron grilles designed in the form of twisted branches and fruit, little pots of Rose trees and birds, one of the most decorative examples of ironwork I have ever seen. These grilles are painted rusty black and under each window is a curved basket made of braided wire painted to match the grille-work. In these boxes are planted the flowers of the season, mixed with Ivy trailing over the sides.

The window trim and baseboard in this room are marbleized bluish green, the ceiling and side wall being deep Venetian pink, almost lacquer color. The floor is laid in squares of bluish green and white marble with a narrow sill across the entrance to protect the dining room if the water spills over from the plants. At one end is a small lead fountain of an elk so piped that water pours from a shell over his head and trickles down over the plants onto the marble tiling where an outlet connects with the pantry plumbing.

When an old-fashioned brownstone front is altered into an English basement house, what was originally the front door vestibule may be converted into an unusual little conservatory or flower room off the living room. Break through the walls and make the top of the opening a wide, flat archway. The side walls are then lined with strips of mirrored glass fitted together and held in place with glass rosettes. If it is not feasible to cover the entire wall with glass, narrow mirror panels placed on opposite walls will give much the same effect. The floor is tiled with marble or sections of black glass, not forgetting to lay the floor so that it slopes slightly towards the center where there is a drain. A narrow sill is built up in front of the doorway. In place of marble, composition flooring or linoleum may be used.

Fitted against the mirrored walls are iron trees with curving branches, each branch made to hold a flat saucer on which is placed a flower pot. Ivy or any trailing vine will give the effect of foliage and the background has a tendency to enlarge the space in addition to reflecting the plants. At the window is a painted roller shade of flowered glazed chintz, or, if preferred, Venetian blinds may be used painted the peach tone of the walls.

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Bringing An Old House Up

(*Continued from page 72*)

their efficient overhead fixtures. And—supreme luxury—the closet may be completely lined with aromatic cedar, applied directly over plaster walls, ceiling, floor and the inner surface of the closet doors.

It is in the working center of the old house that the most startling improvements can be made in such simple ways as raising the height of the sink and placing equipment so as to allow systematic routing of steps. Colorful walls and paint will give the vivacity which the modern kitchen demands, and if new equipment is to be bought, sink, dishwashers—in cabinet or sink models—electric refrigerators, and even laundry tubs may be found in the most gay shades. Or table-top, sink-top and window-trim of marble will assure cleanliness and long wear as well as beauty. The new console stove, too, lends decorative charm to the kitchen, covering up all signs of its practical purpose when not in use, and kitchen furniture conceals under roomy table top or capacious chest all the appurtenances of modern cookery.

With the introduction of the breakfast nook many serving problems were solved for the maidless home and the informal, quick time meal. These convenient and picturesque aids to easy living may be bought completely made and tucked into the often far too roomy kitchen of an old house. Handy cupboards above—which also come ready to set up—hold special equipment for the less ceremonious service which this homey innovation demands.

The fireplace casts the same spell today as in the sterner age when its purpose was far more elemental. The removal of a mantel of outdated design will reveal the decorative possibilities of the brick chimney face, and a smoking hearth fire can often be corrected by merely building up the floor with a layer or two of brick or adding a metal hood to close down the opening to smokeless proportions. And one of the joys of the wood fire today is the ingenious lift which brings the logs from the cellar direct to the firing line without traveling across clean floors and rugs.

Modern hardware has been raised to such a high point of perfection and adapted so artistically to every period scheme that real beauty as well as practical convenience can be achieved by the change of old door knobs or hinges for a more pleasing type. Effortless privacy is furnished by the new principle in locks which, at the press of a button, securely fasten the door, while turning the knob unlocks it again. And the selection of window and door screens reveals the most ingenious developments in this highly important equipment. For, today, permanent screens roll up and down as easily as a window shade, disappearing into a metal housing at the window top when not needed and latching firmly to the sill when in use. Or the casement type swings easily inward or outward, combining convenience with strength, neatness with beauty.

The vital and individual matter of lighting demands that fixtures and base plugs be provided in abundance with outlets for radio, vacuum cleaner, dining room appliances and the whole range of possible acquisitions in the way of heavier equipment. The lighting company will advise if the present wiring is sufficient and install the less expensive commercial circuit necessary for the electric range and for the other large appliances.

The selection of lighting fixtures is a real adventure, for splendid features are constantly being developed in the new indirect systems and in the use of small lights for ornament. Like the choice of wall coverings, wood finishes and floor surfaces, this decision is part of the artistic quest which follows the more practical business of checking up which makes a truly modern home out of the old house.

The Garage And Its Construction

(*Continued from page 89*)

sidered before plans are drawn up.

The scale drawings on page 89 show typical examples of the three types of garage, together with a construction detail of each one. A one-car garage attached to a house is illustrated in the first drawing. The accompanying detail is a section through the sill, illustrating the foundation floor, the method of anchoring a frame wall to a foundation, and a typical section through an exterior wall as in ordinary frame construction. The wall abutting on the residence proper should be thoroughly fire-stopped with brick or some recommended fireproof blocking.

The central drawing is of a two-car garage to be placed beneath the first floor of a house. Three walls are brick foundation walls of the house itself, and the fourth is also of brick. In this case the detail shows a section of the garage ceiling and the floor of the house above.

The third scale drawing depicts a detached garage to house a single car. It has eight inch brick walls surfaced with plaster on the interior, and its dimensions are the same as the other one-car structure. The detail below it shows a section through the cornice, and is complete even to the gutter. The section through the sill of the other single-car garage might be regarded as a typical sill detail of this one also, except that in the detached example the walls are brick.

This stately brocatelle comes in red, green and rose de chine • •

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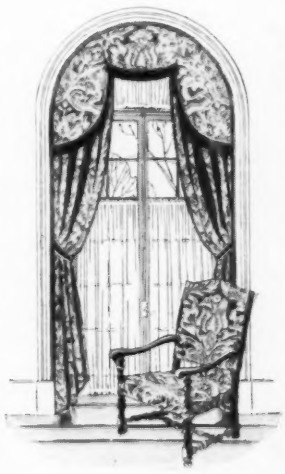

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GIMBELS

OLD WORLD SHOP . NINTH FLOOR

Broadway at 33rd Street, New York City

Climbers For Many Situations

(*Continued from page* 85)

us that it is near. In beautiful garlands *Vitis labrusca*, the Fox Grape, drapes its vines. Its thin, curly tendrils can not always hold the abundant foliage so that it will drop down, held lower by stronger tendrils.

Adhering disks, aerial rootlets, twining vines and tendrils hold up all these vines, searching for light and air, the essentials for their existence.

Other places than the woods demonstrate how to use climbing vines; we all would be proud and happy to have a wall such as I saw in Geneva, Switzerland, some years ago, from which hundreds and hundreds of large bell-shaped flowers were hanging down, a mass of deep orange-red. It was *Bignonia grandiflora*, but unless we live south of Philadelphia we should not attempt to plant this variety of Bignonia, for it is not dependably hardy.

Central Park, New York City, shows us how to use *Wisteria sinensis*. Its long pendulous clusters of fragrant flowers appear in May and June; the branches, in whimsical forms, ramble over the rocks. Besides the blue there are a white variety, *sinensis alba*, and a kind with very long clusters, sometimes two feet long, blue or white, called *Wisteria multijuga* and *multijuga alba*. The white flowers of both varieties are pretty but are not the blue ones much prettier?

More important than what variety to buy is what kind of plant to buy; if we plant one grown from seed we will have to wait years until it flowers. Why? Because a seedling is a new plant which will not flower until it has reached the blossoming age. So it is much quicker to buy a plant grown from a cutting or by layering, but always taken or made from a plant which has reached the flowering age. Such plants are a part, practically a continuation, of the mother-plant and will flower as soon as they are physically strong enough.

STANDARD WISTERIAS

Three single shoots of Wisteria, twined together and cut off six feet above the ground, if supported by a post or a half-inch pipe will make a splendid standard. The branches developing from the top of the three twined vines can be easily trained like an umbrella or any other form and will produce a great quantity of flowers. Some porches are a sight to behold with Wisteria rambling along eaves and uprights. The vine needs something stable to twine around for it is not equipped to hold itself in any other way.

If I remember correctly, it is one of the walls of the Administration Building in the Arnold Arboretum near Boston which is covered with *Hydrangea petiolaris*. The white flowers resemble the Hydrangea but they are smaller and more flat; they bloom in June and July. It clings to the wall very firmly by means of aerial rootlets which have to hold a mass of showy, dense, bright green foliage which develops very early. *Hydrangea petiolaris* is an excellent plant for covering brick and stone walls and should be used more; the fact that it is satisfactory in Boston shows its hardiness.

And then there is the Clematis clan, all of which need a support. They must be trained to trellises or a piece of poultry wire unless we let them ramble over rocks or low walls. We often see the very fragrant *Clematis paniculata* in this country but seldom the large flowering varieties; they should be planted by the tons of thousands. The right selection of varieties will secure flowers from spring until frost.

Polygonum auberti and *Polygonum baldschuanicum* are two more very good vines, both of them rapid growers. They are handsome and vigorous and are covered through the entire summer and autumn with foamy sprays of white and pinkish white flowers, *auberti* with white, *baldschuanicum* with the pinkish white. They need support to cover a wall.

THE HONEYSUCKLES

It would not be difficult to devotean entire article to Lonicera, the Honeysuckles, but I will mention here only the climbers and not the bush forms. They are all known for their exquisite fragrance, the profusion of flowers they produce, followed by numerous berries of red, black or scarlet and for their glossy green foliage.

Many of them are evergreen or nearly so; *henryi* is the best of this type. *Lonicera caprifolium flava*, the Yellow Trumpet Honeysuckle, has bright yellow flowers; *periclymenum*, the Fragrant Dutch Honeysuckle, has flowers which are red outside and yellow inside; *halliana* has white flowers; *heckrotti*, light purple with yellow inside. They all are constant bloomers and very, very fragrant. *Lonicera japonica reticulata aurea* has light green leaves, beautifully netted with golden yellow; towards the autumn red mingles with these colors. It is a very beautiful variety though not dependably hardy; it dies back to the ground but in spring will recover quite vigorously; a mulch will protect it sufficiently to stand the effect of moderate frost.

There are several other good varieties, but the foregoing are enough to make a choice.

The best known evergreen climbing plant is doubtless the Ivy. *Hedera helix*, the English Ivy, is considerably hardier than the Irish form, *Hedera helix canariensis*, though the foliage of the latter is larger and more handsome. But even English Ivy is not dependably hardy and needs protection in the North, so it can not be used there as a wall-cover. Around New York I have seen churches and other large buildings covered with English Ivy; it will suffer somewhat in spring in places exposed to the sun but will soon establish itself. Where the foliage can be reached, as on rocks and smaller trellises, it is advisable to cut off the leaves in April; fine glossy foliage will soon reappear.

Ivy attaches itself to a wall by means of aerial rootlets—not only attaches but feeds itself with them. I remember a wall shaded by a large Horsechestnut and covered with Ivy, the vines of which were cut off near the ground for some reason or other. The plant continued to grow as if

(*Continued on page* 114)

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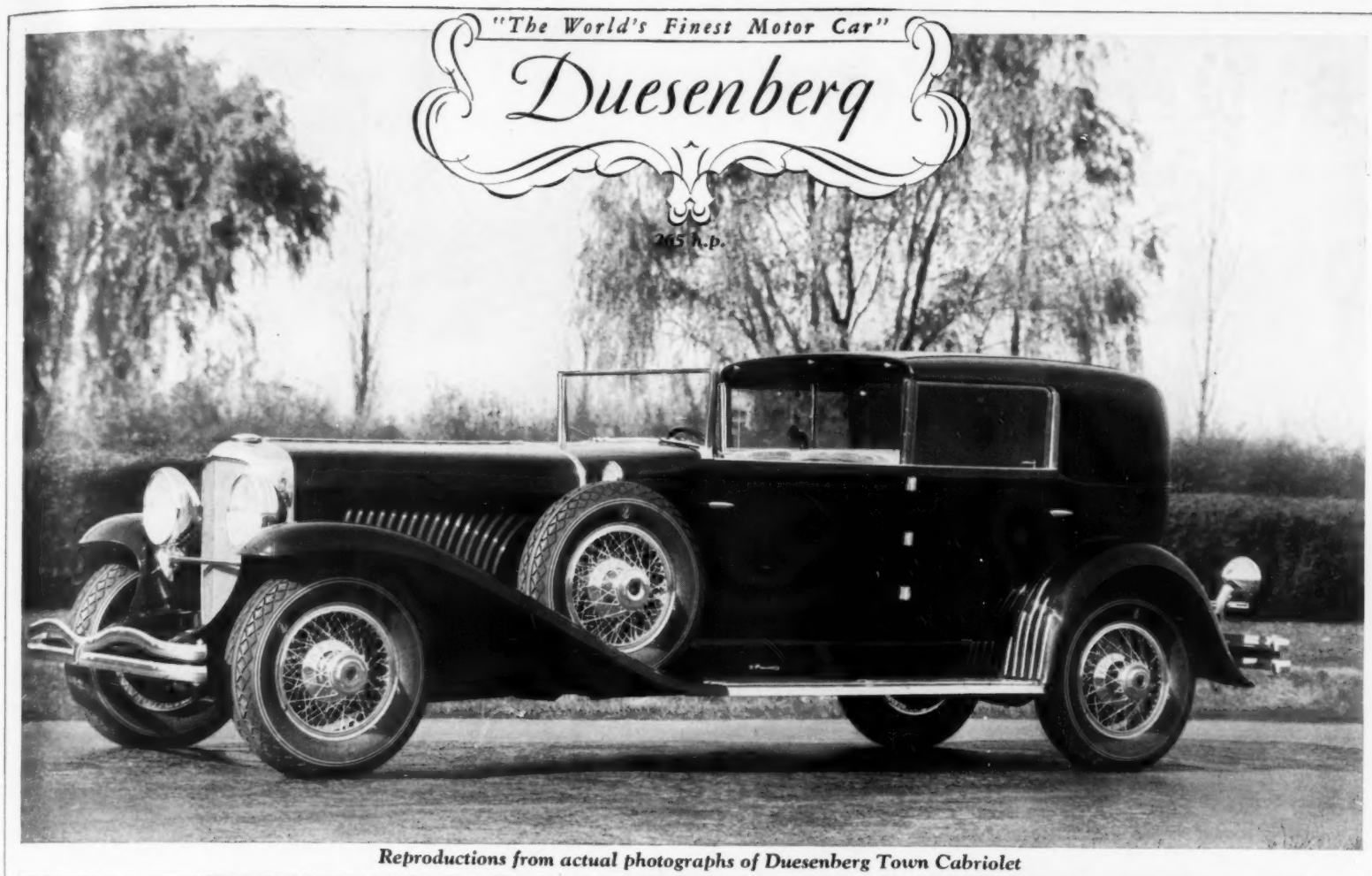

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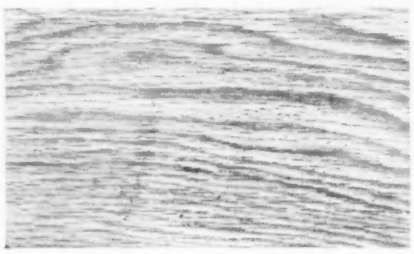

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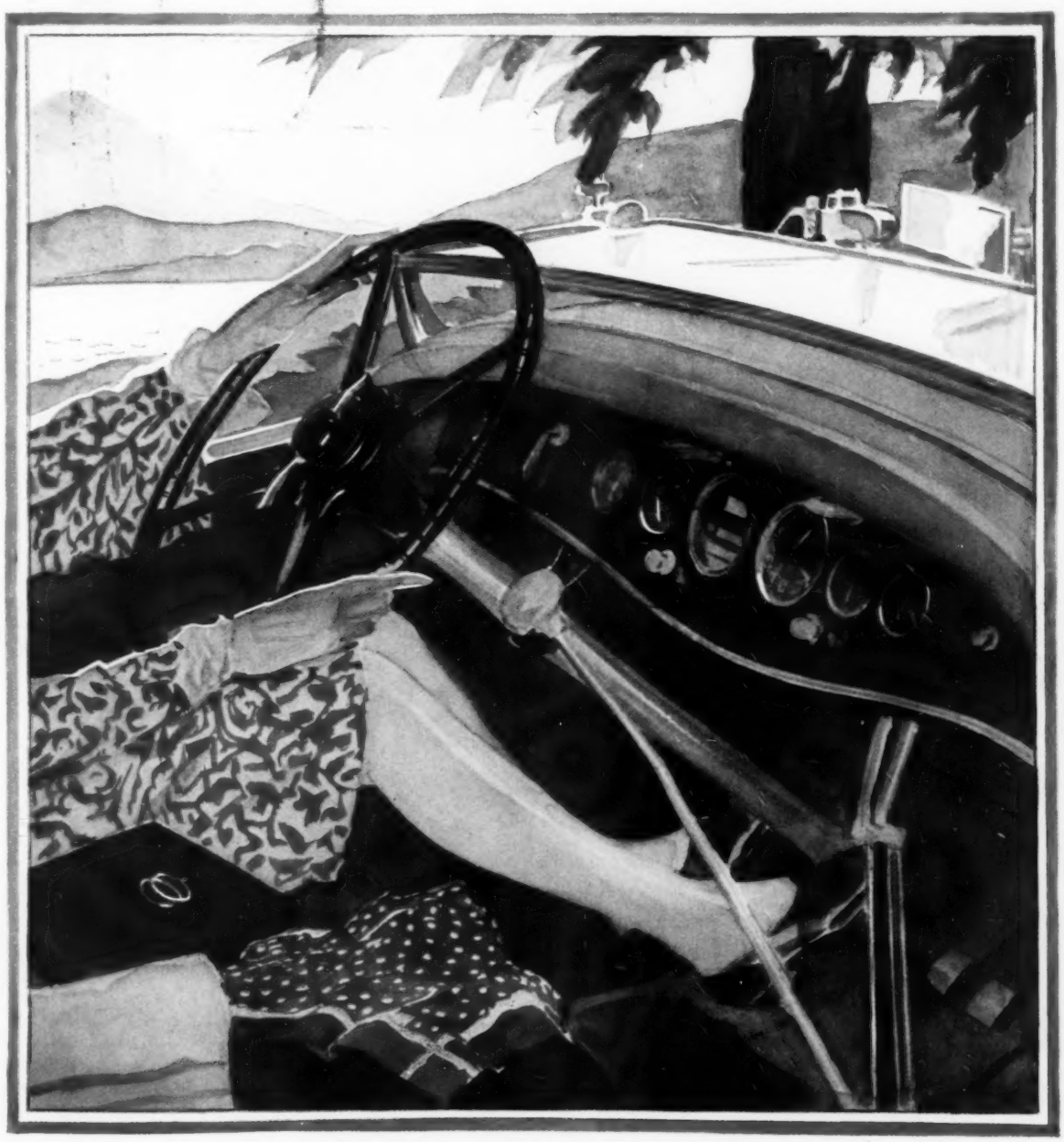

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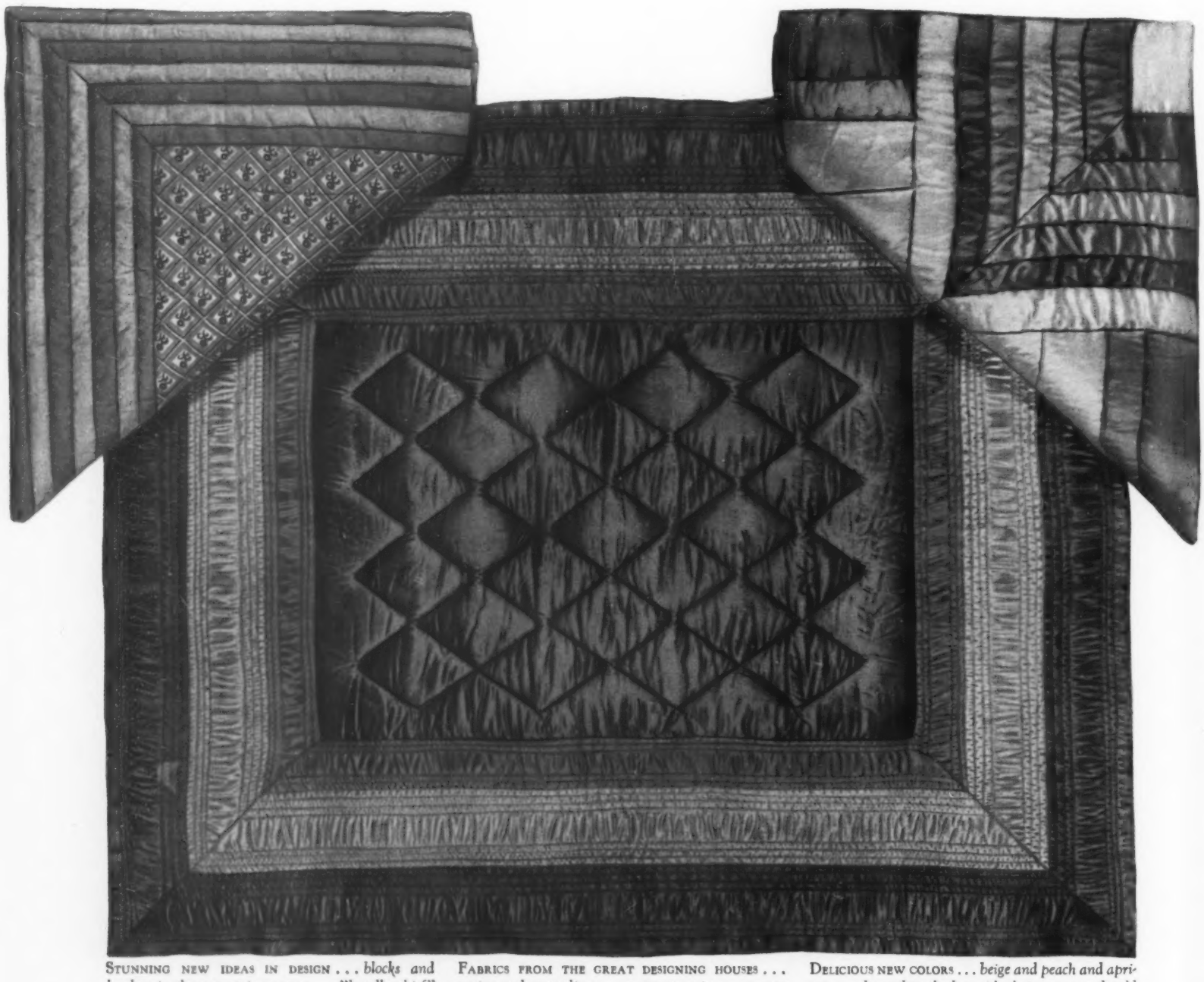

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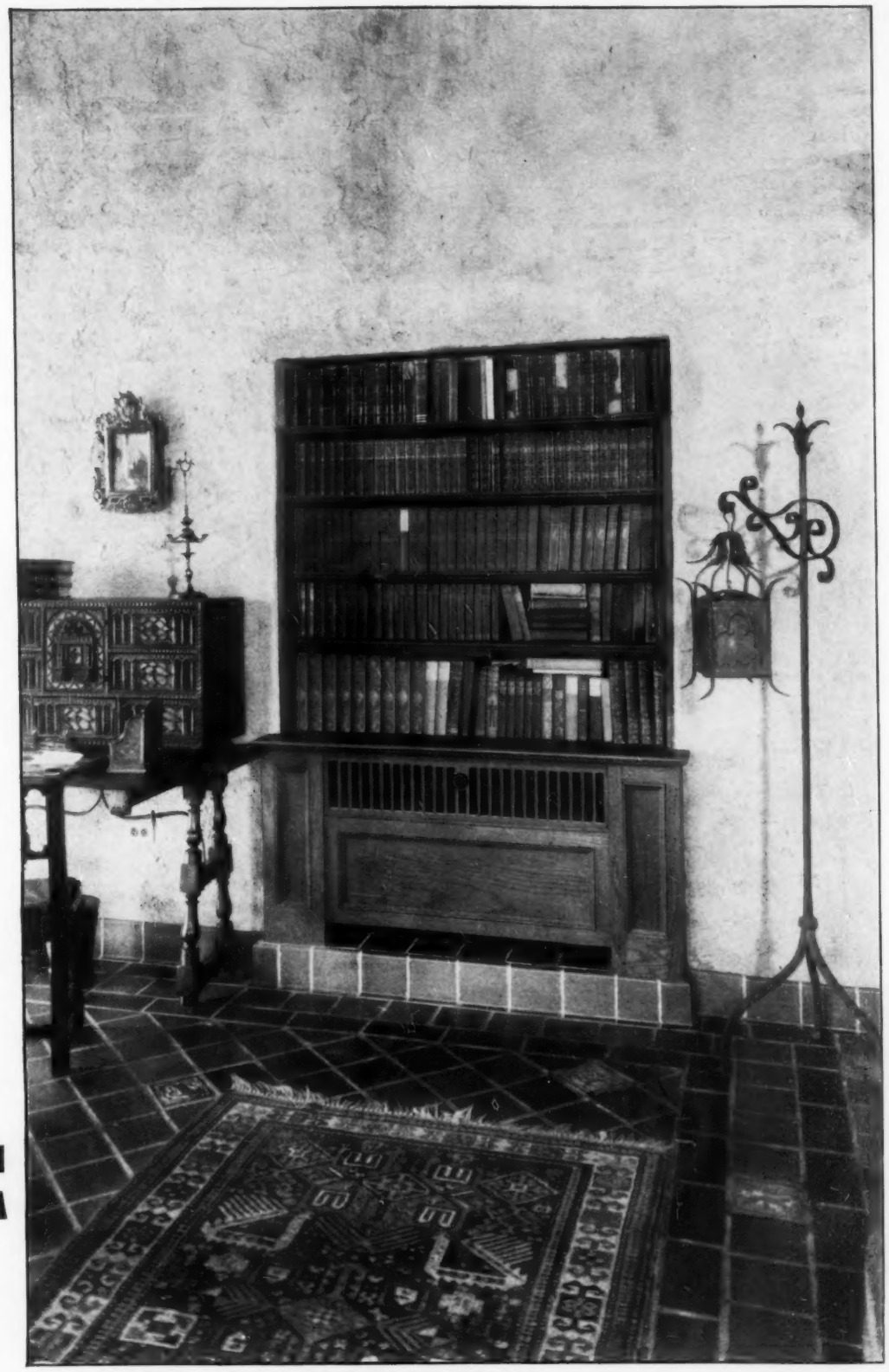

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Now PRICED WITHIN THE REACH of EVERY HOME OWNER

Climbers For Many Situations

(*Continued from page* 110)

nothing had happened. I mention this to prove that Ivy takes the moisture from walls which it covers and makes them dry, contrary to the belief that Ivy makes walls damp.

This vine is used largely for covering trellises on roof gardens. Nothing is better for a narrow summer screen, for it can be trained in all kinds of forms in pots, used in hanging baskets and flower boxes and can stand a great deal of hardship. Young plants are somewhat difficult and slow in growing; they should be bought grown in pots and planted without the pots.

Aristolochia sipho, the Dutchman's Pipe, is one of the well known deciduous climbers. It twines from right to left and takes hold firmly of whatever it can grasp, forming a very dense and desirable screen. Its flowers resemble a small pipe about two inches long, appearing in May and June; they are green with brown marked veins and a brown margin. *Aristolochia tomentosa* is a less desirable variety with yellow flowers.

AMPELOPSIS SPECIES

In the beginning of this article *Ampelopsis quinquefolia*, the Virginia Creeper, was mentioned. It is largely used to cover large walls of all kinds of buildings. There are two varieties, *engelmanni* and *muralis*, similar to the Virginia Creeper but which attach themselves to a wall even better than the old variety.

Ampelopsis tricuspidata veitchi needs no description; it is usually called the Boston Ivy. *Lowi* has smaller and more deeply cut foliage and is more graceful, with young growth that is red. It is a very desirable variety to cover small walls.

All Ampelopsis delight us with their glorious autumn tints. Multicolored fruit adds further charm, truly a race of plants on which Nature has bestowed many favors.

Actinidia arguta, the Bower Actinidia, has thick leathery leaves and produces white flowers with purple centers in July, followed by edible fruit that somewhat resembles yellow Gooseberries. It is well suited for trellis work on account of its glossy, shining foliage. *Actinidia polygama*, Silver Sweet Vine, is a similar variety, also producing edible fruit. A peculiarity of Actinidia is that it shoots up straight to a height of from three to six feet and then capriciously begins to twine to the left. In a large block of climbing plants which my father had in his Holland nursery there were several rows of Actinidia; they were all grown against stakes and were given a tie every week in the growing season.

Periploca graeca, the Silk Vine, is another rampant growing, very desirable vine for quick effect, rapidly covering a wall if given something to which it can attach itself; it turns to the left. The leaves are lancet-shaped, three to four inches long, narrow, dark green and shining. The chocolate brown flowers which appear in July are very fragrant.

There is no space in this article to discuss Celastrus, *Lycium chinense*, Schizophragma and other desirable hardy climbers, or several very beautiful climbers which are hardy only in the extreme South, the Southern States and the Pacific Coast region such as Bougainvillea, *Ficus pumila*, *Jasminum pubescens*, *Thunbergia grandiflora* and many others.

Climbing plants are in general thankful for a warm, well drained, fertile soil; mix plenty of peat moss with the soil and give a mulch of rotted manure or better still of a compost made up of half manure and half peat moss. We must avoid planting under eaves where rain can not reach the plants and also avoid putting them under drip or where the rain from gutters or spouts may lay bare the roots. The mulch must be renewed every autumn; we ask so much of climbing plants in one season!

All climbing plants which are to cover a wall need help to make them take hold. This is best accomplished by tying the vines to small stakes and letting the stakes lean against the wall or by tying the vines, very loosely, to small nails driven in the wall. If they grow on trellises they need a tie every week in the growing season; after attaining some height they find their own way.

MATTERS OF HEALTH

Climbing plants harbor very few insects and are hardly subject to diseases. A thorough spraying with some oil emulsion or carbolineum emulsion, especially manufactured for spraying purposes, will destroy all insect life, eggs, etc., and secure fine healthy growth the coming season.

Healthy growth and flowers can also be promoted by cutting the vines back every spring and thinning them out radically. One vine, developing healthy growth and consequently good flowers, is worth four producing weak growth. Moreover, many times a better effect is created if we can see part of the building or trellis or rocks or fences through the vines. If we should cut too much, Nature will take advantage of our mistake and soon fill in bare spots.

Architectural value, shade, a symphony of autumn tints, fragrant flowers of all hues and berries of all colors—what more can be expected of any kind of plants?

Gargle full strength Listerine every day. It inhibits development of sore throat, and checks it should it develop.

Let them play . . . but afterward
Protect them against *colds* and *sore throat*

It isn't while playing that children catch cold—it is afterward, when, still overheated, they sit around in damp clothes or unconsciously expose themselves to drafts. These exposures, like wet feet and sudden changes of temperature, weaken body resistance so that disease germs in the mouth get the upper hand.

Therefore, in addition to the regular morning and night gargle, see that your children, however sturdy, use Listerine on returning from play.

Listerine aids Nature in warding off colds and ordinary sore throat because it is fatal to the germs which cause them. Tests in the great bacteriological laboratories show that full strength Listerine kills even the Staphylococcus Aureus (pus), the Bacillus Typhosus (typhoid) and the Streptococcus germs in counts ranging to 200,000,000, in 15 seconds. We could not make this statement unless prepared to prove it to the complete satisfaction of the medical profession and the U. S. Government. Yet Listerine is so safe that it may be used full strength in any body cavity.

Gargle with Listerine regularly every day, as a preventive measure against infection. And, at the first definite sign of colds or sore throat, increase the frequency of the gargle, meanwhile consulting your physician. If serious complications are threatening, he will detect and treat them properly. Lambert Pharmacal Company, St. Louis, Mo., U. S. A.

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Listerine *kills germs in 15 seconds*

All that is beautiful

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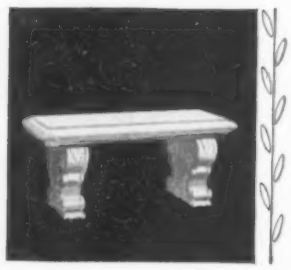

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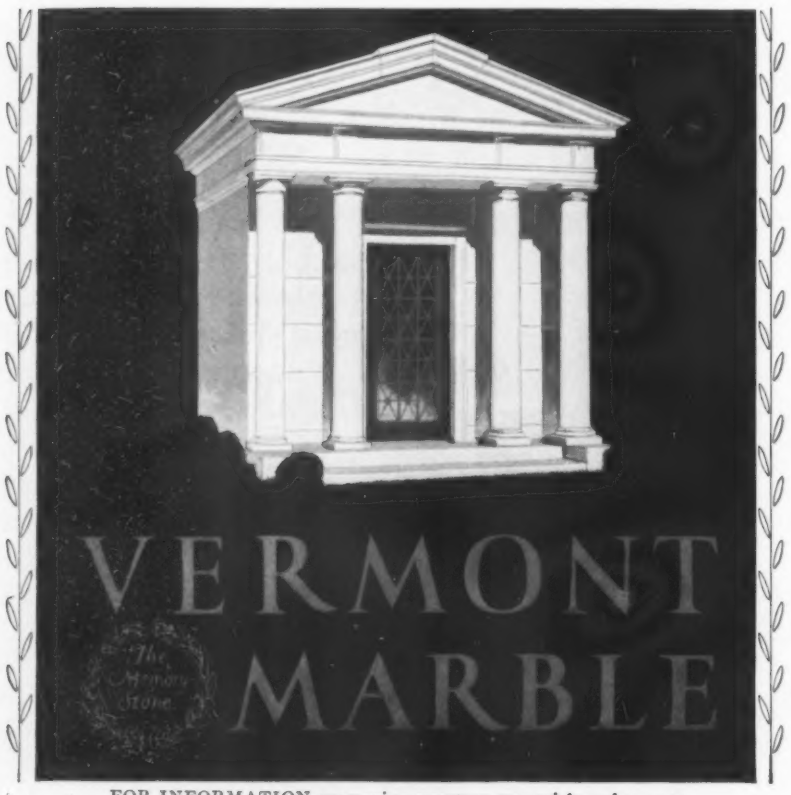

FOR INFORMATION concerning cemetery memorials and mausoleums write for booklet entitled, *All That Is Beautiful Shall Abide Forever*. It illustrates the 12 basic types of modern family memorials, simplifies the problem of selecting designs, explains our nation-wide service through local Master Craftsmen in Marble.

How To Produce A Perfect Lawn

(*Continued from page* 87)

heavy winter rains by sod strips such as those described later in this article.

It is in the preparation of the soil for planting that my own experience has been most widely at variance with the methods usually recommended. For several years I have made a practise of concentrating all of the plant food used in the upper two inches or so of soil. I am convinced that such stereotyped directions as "plowing under a good coat of manure," "enriching the soil four or five inches deep with sheep manure or fertilizers," "preparing the ground as for a good crop of vegetables," and so on, result not only in unnecessary labor but also in a decided waste of the plant food. If one will only stop to consider a moment the reason is quite evident.

The majority of such grasses as are suitable for lawn making do not root deeply. By far the greatest proportion of the roots of a lawn sod are to be found in the upper two inches of soil; below three, or at the most four inches, if such a sod is examined, scarcely any roots are to be found. Anyone who has had experience in laying sod knows that it is much easier to get it to "take hold" if it is cut one to two inches thick, than when decidedly thicker, because in the latter case there are so few roots to penetrate the surface upon which it is laid. Fertilizers, moreover, are worked down into the soil by the action of rains or artificial watering. Therefore, in lawn making, concentrate all your plant foods near the surface; those which are placed at, or which are carried down to, a depth greater than two or three inches below the surface will go to feed the weeds and not the grass.

A generous use of lime, both in preparing the soil for planting a lawn, and as an annual top dressing in caring for it afterwards, has been proven to be not only unnecessary but, in the great majority of cases, positively injurious. All of the grasses ordinarily used for lawn making will grow in an acid or a neutral soil. Many of the worst weeds are lime lovers, but they are discouraged if not entirely eliminated by acid reacting soils.

USING LIME

Unless ground with which one starts is extremely acid, it is better not to use lime either when making the lawn or for its after care. The degree of acidity can readily be determined by the use of a good testing outfit, which costs but a few dollars and provides the means of making numerous tests—an extremely useful device for any gardener in the growing of all kinds of plants. The amount of lime to be used will also depend largely upon whether or not one wishes clover in the lawn. At the moment there is a fad for having Cloverless lawns. Like most things of this sort it has been carried to an extreme; a moderate amount of White Clover is desirable in many ways. If gypsum or land plaster is used instead of the more widely advertised forms of hydrated lime and ground limestone, one may add the amount of lime necessary for the healthy growth of Clover without making the soil alkaline and thus encouraging weed growth. Five to eight pounds to each one hundred square feet may be applied under average conditions.

The use of manure in preparing for planting, and also as a winter mulch in the after care of the lawn, is a practise still general but open to many objections. If barnyard manure is employed it is almost certain to bring a generous crop of weed-seeds, unless one can obtain it six months or more in advance and allow it to decompose before using. Sheep manure, so widely recommended and advertised for lawn use, is, in my opinion, decidedly overrated; as a source of humus it is practically valueless, and plant food may be bought much more economically in other forms. The modern, clean chemical concentrated plant foods, while costing much more per pound, supply the actual plant foods—nitrogen, phosphoric acid and potash—much more economically. The animal base fertilizers, such as coarse bone, bone flour, blood and tankage, and cotton seed meal, are reliable and efficient though not quite so convenient to keep and to use as the complete chemical fertilizers. The more concentrated the fertilizer, of course, the less the amount which need be applied. Three to five pounds of a fertilizer containing approximately 4% of nitrogen, 8% of phosphoric acid and 4% of potash, is none too much for use in average soil conditions.

HUMUS IN THE SOIL

Quite as important as the question of fertilizers or plant food is that of humus in the soil, although it is often given but scant consideration. Humus is decayed vegetable matter. The efficiency of animal manures in promoting plant growth is due quite as much to the humus they contain as to the very limited amount of plant food. Where fertilizers are used, they should be supplemented by some form of humus as they themselves contain little or none of this essential material. Humus may be home-made by the maintenance of a compost heap. Where this is not available, one must turn to other sources. The most convenient and reliable are granulated peatmoss and commercial humus preparations. Peatmoss has a greater capacity for water absorption and retention than any other soil-building material. I have employed it extensively in lawn making for several years with extremely satisfactory results. Being slightly acid in reaction, it produces just the conditions desired for grass growth. The tiny roots of the seedling grass plants revel in the moist humus particles which they find in the surface soil and are thus enabled to form quickly a dense turf which presents a minimum opportunity for weeds to become established.

If the preceding suggestions are to be put into effect in making a lawn, the method to follow will be somewhat different from that which is usually employed.

One may consider the structure of the lawn to be made up of three quite distinct strata, like a layer-cake. The bottom one of these is the sub-soil or sub-grade; what we chiefly require of it is that it shall be porous enough to permit thoroughly free drainage of

(*Continued on page* 118)

TO MAKE THE DWELLING DISTINCTIVE

THE antique highboy in the far corner, wing chair by the fire, drop-leaf table here, rich mahogany pieces, art objects—most likely you can see them already placed in the new home you are planning to build some day. Each room is to be individually charming. Every item in it must contribute harmoniously toward its beauty.

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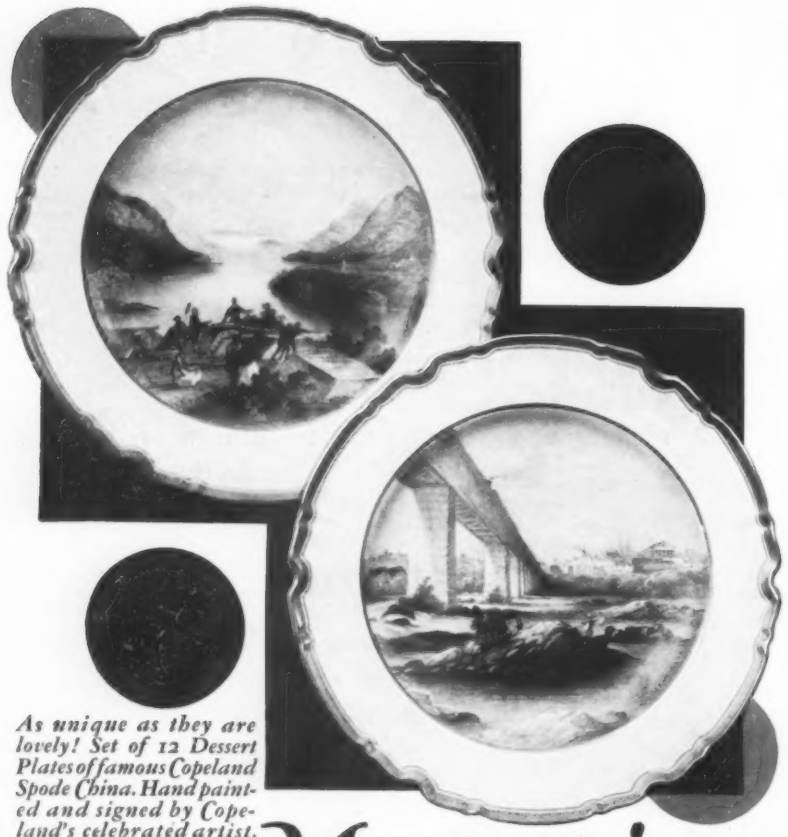

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How To Produce A Perfect Lawn

(*Continued from page* 116)

any surplus water. Above this there should be a layer, three or four inches deep, of fairly good loam containing as much humus as it is practical to secure, but to which no plant foods or fertilizers need be added. On top of this, again, comes the surface layer, at least one inch deep, and better two to three, in which both humus and plant food have been incorporated. My own method of making lawns over a small area is to prepare this top-dressing separately, mixing a compost of two parts good garden loam to one of peatmoss, shoveling the ingredients together through a medium mesh soil or gravel screen. The fertilizers are then mixed with this compost, or spread on the surface where it has been applied, one to three inches thick according to conditions. For larger areas, an extra fine and rich surface layer may be made by applying humus and fertilizer to the surface and cultivating or harrowing them in very lightly. Spent Mushroom manure, which may be bought in bulk for a few dollars a ton, is one of the most satisfactory materials I have ever found for this purpose. With the most careful preparation, however, it is not possible to obtain as fine a seed bed as that secured by mixing the compost and spreading it over the top.

In a seed bed prepared by either of the above methods grass-seed may be started quickly and vigorously at any season of the year. In dry weather, of course, it is essential that the surface be kept moist until the little plants are well up. In spring or early summer sowing, there will be more weeds to contend with than in fall sowing, for the reasons already explained.

KINDS OF GRASS

What grass seed is it best to sow? There has been much talk during recent years about lawns of Creeping Bent. There has been a tendency to run to extremes in this as in other garden vogues which occur from time to time. Selected strains of Bent are particularly serviceable for putting greens or for other sport turfs. In my opinion it is not possible, however, to get as fine a Bent turf from seed as from stolons or cuttings. A Bent lawn needs more constant and expert care than one of Bluegrass, and the turf, while more dense, is less attractive in color. If the same amount of care which it is necessary to use in procuring a Creeping Bent lawn is expended on a lawn of Bluegrass from seed, I believe it will produce results more certain to be satisfactory. I mention this fact not in any attempt to dissuade any prospective lawn-maker who wants a Bent Grass lawn from trying it, but merely to present both sides of the case.

Whatever grasses are used, the utmost care should be taken to procure absolutely the best seed it is possible to obtain. Cheap mixtures contain dead seed, seeds of objectionable varieties, and enough weed seeds to foredoom the lawn to failure from the start.

The newly constructed lawn should be thoroughly watered and, if possible, rolled before planting. This will help to reveal any soft or low spots, so that these may be remedied when lightly raking over the surface preparatory to seeding. If the seeding is to be done by hand, it is a good plan to mark off with strings strips six to eight feet in width as a guide in sowing, and also to divide the seed into two equal parts, going over the area twice, the second time at right angles to the first. One pound of good seed will sow from two to four hundred square feet. Extra thick sowing will be found to give a green turf more quickly.

SODDING

While using sod for an entire lawn is expensive, it does not cost a great deal to use sod strips, six to twelve inches wide, along the edges of paths, along flower beds and, in general, to outline the lawn area. Not only does this give the newly made lawn a much more finished appearance than it would otherwise have, but the sod also furnishes a worthwhile protection, for it is at the edges that injury is most likely to occur, either from animals—four-legged or two-legged—or from the washing of heavy rains. On terraces and steep slopes similar strips, placed four to six feet apart, will help very materially in checking any soil runs or gullying during excessive rains until the new grass has begun to form a turf. The sod should be laid on a carefully prepared and thoroughly watered surface and beaten down very firmly with the back of a spade. Give a thorough watering daily for a week or so, and firm the sods again carefully after the first few days to make sure that none of them have worked loose.

On fall planted lawns, with the approach of freezing weather it is well to give a mulch of peatmoss, humus or old manure that has been passed through a screen to break it up into fine particles. This should be raked, to work it in around the grass roots, and not left to lie over the blades of grass. An application a quarter to a half an inch thick will be sufficient. No fertilizer should be used at this time. A similar mulch will be beneficial to a spring-sown lawn, but it is better put on in two applications, a month or so apart after the grass has been mown once or twice. The use of acid reacting fertilizers such as sulphate of ammonia, in feeding the lawn—and it must be fed regularly if it is to be maintained in first-class condition—will stimulate luxuriant growth of the grasses without encouraging the weeds.

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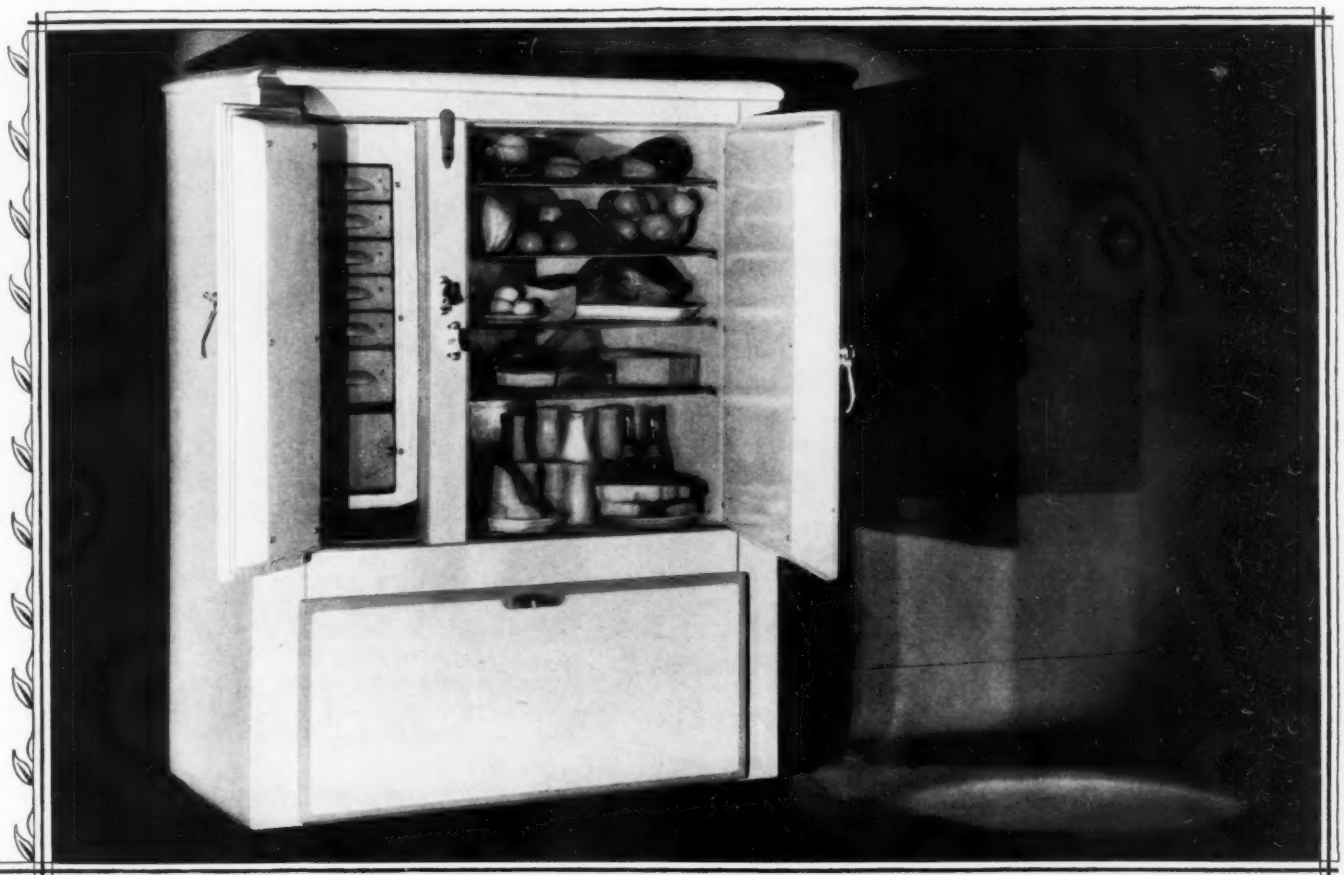

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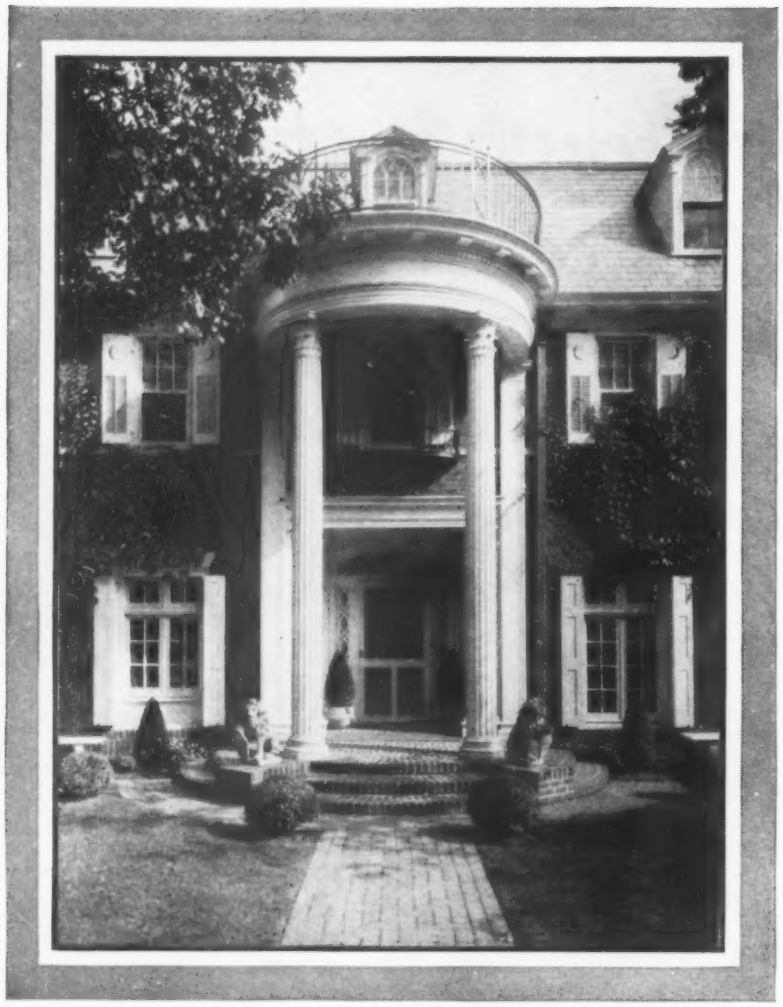

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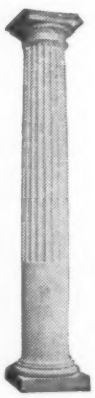

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ROSE ARBORS ✦ GARDEN EQUIPMENT

Opportunities Of California

(*Continued from page* 84)

species and there are no more handsome umbrageous evergreen trees in northern forests than certain of the Laurel tribe. Of evergreen Oaks there are many in China that should be grown in California. There are new Magnolias and new almost everything that go to make up the marvelous rich flora of Far Cathay. Formosa, which boasts a similar flora to that of China, but whose members are largely endemic, has been scarcely tapped. On the small island grow magnificent Conifers which exceed in size all others known from the Old World.

South Africa has contributed quite freely to western gardens, especially of its bulbous plants. It has given us the parents of our modern Gladiolus, Sparaxis, Babianias, Freezias, Nerines, Vallotas, Haemanthus, the Belladonna Lily, the Silver-tree, the parents of our Pelargoniums, Scarlet and Ivy-leaved Geraniums, the African Lily (*Agapanthus umbellatus*), the Parrott-flower (*Strelitzia regina*) and many another exquisite, all of which may be found here and there in Californian gardens; but here again the surface has only been skimmed. The Cape Province alone could add a thousand valuable plants to Californian gardens. Heaths are a feature of South Africa; more than five hundred species are known, varying from prostrate, mat-like plants to large bushes and even small trees ten to twenty feet tall. Their flowers are of every color and every shape and the species in variety blossoms throughout the year. Of this vast wealth no more than a dozen kinds are growing in California. The Silver-tree belongs to the great family of Proteaceae, of which the genus Protea itself is represented in South Africa by no fewer than fifty species. Two or three of these are known in Californian gardens but all are worthy of representation.

FROM SOUTH AFRICA

It has been my good fortune to see most of the remarkable flowers of the world and I vote the flower heads of such Proteas as *P. cynaroides* and *P. mellifera* among the most beautiful and remarkable of all flowers. In South Africa are many succulent plants, including the great family of Aloe, especially well-suited for growing in southern California. These have brilliant blossoms borne usually many together in erect racemes, yellow, orange to scarlet or a combination of these being the dominant colors. To visit South Africa when the Aloes bloom is worth a long journey.

Acacias and Eucalyptus are well to the fore in Californian gardens. Indeed, the latter are among the commonest of trees planted by roadsides and about homesteads. The gorgeous blossoming *E. ficifolia* is rightly esteemed in California one of the most welcome of all exotics. Of the hundreds of species of Eucalyptus Australia boasts many that are well worth a place in California and none more so than the Goldfield Gum (*E. torquata*) with its multitudinous large corymbs of orange to pink blossoms. The remarkable *E. macrocarpa* with its five to six-inch broad flowers and the only slightly smaller flowers of *E. erythrocarpa*, *E. tetraptera*, *E. erythronema*, and *E. pyriformis* ought to be familiar to every Californian.

Acacias, too, there be equal in beauty at least to any at present grown.

For binding sand dunes *A. sophorae* ought to be widely used. The so-called sandplains of western Australia in particular boast a thousand ornamentals fit to adorn California's gardens. These include Boronias, Grevilleas, Chorizemas, Verticordeas, Bossiaeas, Thomasias, Beaufortias, Lambertias, Fringe Myrtles (*Calycothrix*) Bottle-bushes (*Callistemon*) Leschenaultias and Damperias, whose myriad flowers of exquisite shades of blue, orange and scarlet once seen can never be forgotten. Then there are Banksias which are to Australia what Proteas are to South Africa. Brilliant of blossom and unique in flower and foliage, these are bushes or trees of considerable size bearing usually huge cone-like inflorescences four to twelve inches tall with outthrust stamens and pistil yellow and orange in color. Scarcely one is known in cultivation, whereas each and every one is of first water. The great continent of Australia could indeed contribute with ease a couple of thousand plants worthy of California's jewel case.

NEW ZEALAND PLANTS

In *Leptospermum Nichollsii* New Zealand gave California one of its best appreciated plants. Its Gayas, Edwardsias, Metrosideros and Coprosmas and Pittosporums are also slightly known, but there are others of equal merit. In broad-leaved evergreens and Conifers and Taxads, New Zealand is remarkably rich.

South America gave the parents of our Fuchsias and Calceolarias, Tuberous Begonias and Hippeastrums, *Lapageria rosea*, *Jacaranda mimosaefolia*, Escallonias and Pernettyias, and last but not least *Berberis Darwinii*, and *Berberis empetrifolia* which with the hybrid between the two species, *B. stenophylla*, rank among the greatest ornaments of Californian gardens. Yet South America holds other things in store, some of them known across the Atlantic but few of which are present in this country. Among those well-suited to California are *Eucryphia pinnatifolia* and *E. cordata* with their large multistamined blossoms; *Embothrium coccineum*, the Fire-bush, one of the most gorgeous of all flowering trees, *Desfontainea spinosa* and *Tricuspidaria lanceolata*, better known as *Crinodendrum Hookerianum*, are esteemed among the most beautiful of all plants grown in favored regions in the British Isles.

This is but a page of the story one could unfold; the reservoir of plant material suitable to California is well-nigh inexhaustible. The rich regions of the world hold flowers of rare beauty and await California seizing the opportunity rightfully hers. Some day this dream of seeing California's gardens endowed with the finest of the world's floral treasures will come true. To native Californians and those who have winter homes in that State I commend as a slogan, "Wake up to the full advantages that your soil and climate offers and fill your gardens with the world's best."

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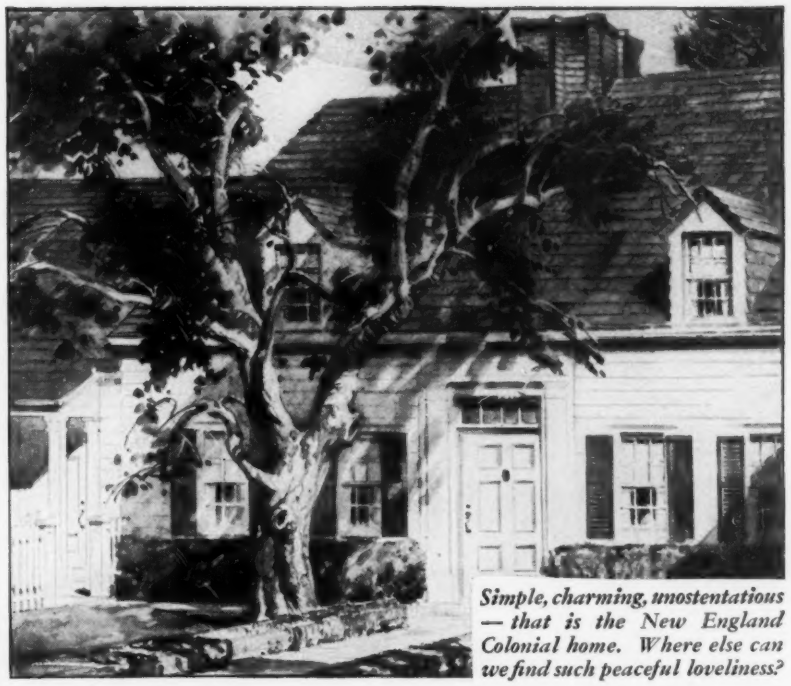

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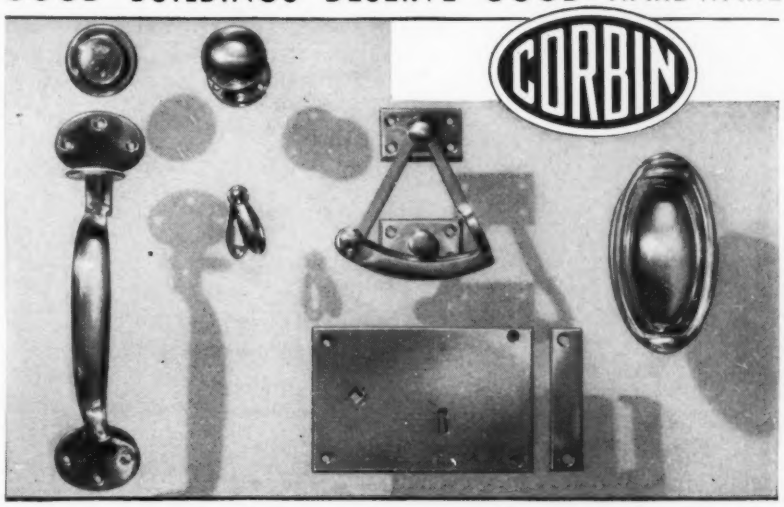

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The Sisyrinchiums are lovely small rock garden treasures that repay the closest scrutiny. This one is the white form of S. grandiflorum and comes to us from Columbia Gorge in Oregon

Amenities of Rock Plant Collecting

(*Continued from page* 82)

minded folk the art of rock gardening has no charms.

My interest in rock plants was first aroused nearly twenty years ago by the alluring pictures in Gertrude Jekyll's *Wall and Water Gardens*. In this delightful book the revelation of the encrusted Saxifrages first burst upon me; there I first saw the white Sea Campion spattered against rough stones, and learned the beauty of curtains of Aubrietia and Androsace and mats of rosetted Houseleeks. It was in this book, too, that I first came to know that anything so exquisitely dainty and perky as the Hoop-petticoat Daffodil really existed in the world of flowers. I remember that, when I went out into the garden afterwards and surveyed my stout clumps of Phlox and Peonies, my mats of lush Sweet Williams, they appeared to my excited eye as almost intolerably dull and good-tempered.

But my first reaching out towards this new class of plants was very modest indeed, not to say timid. Arabis was the first rock plant I achieved and I raised it from seed. Golden Alyssum was the next, and there were soon billowing masses of these two pleasant spring flowers at the top of a dry wall. But when I attempted to go further I found that the nurseries failed me utterly. They offered Bugleweed, Ground Ivy and Moneywort. Not a Saxifrage, not a Gentian or an Androsace, and no small Campanulas save *C. carpatica*. But discouragement is a state of mind unknown to the collector—even an incipient collector. Seeds were of course the answer to my determinations, and thereafter all went as merrily as the proverbial marriage bell, and life took on a new and vivid quality before unknown. Today the situation is wholly different, though the improvement has come about only within the past five or six years. Though seeds must still play an important part in satisfying many of our desires, and they always will provide the most economical and the most truly interesting way of assembling a collection of rock plants, they are no longer the only way in this country.

But it is not the old established nursery, save in a few cases, that is satisfying the gardening public's new appetite. All over the country have sprung up specialists, many of them women, who are devoting themselves solely to growing rare rock plants and Alpines

(*Continued on page* 126)

Sedum compactum is a tiny evergreen creeping plant which has globular, sweet-scented white flowers. It is a native of Mexico and is hardy with us only in mild locations of the East.

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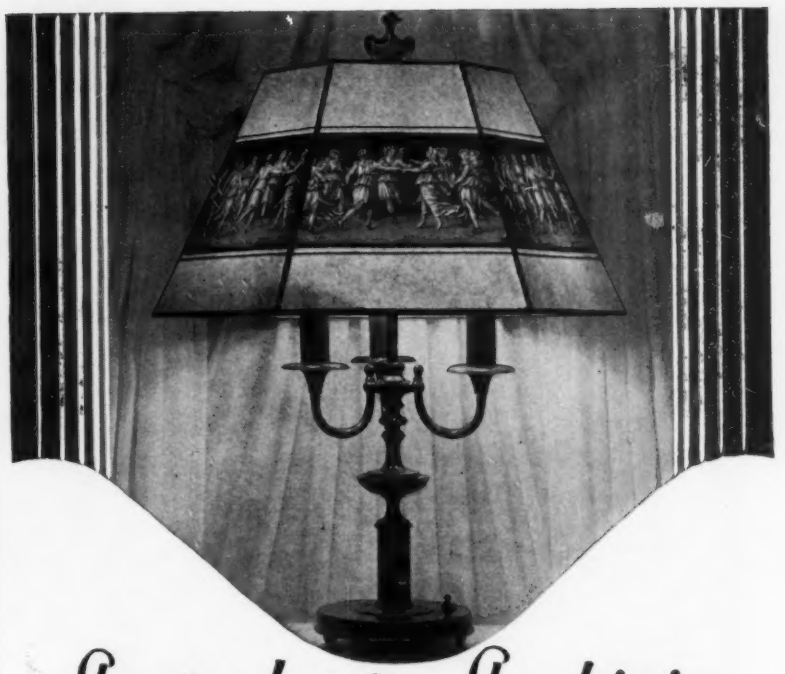

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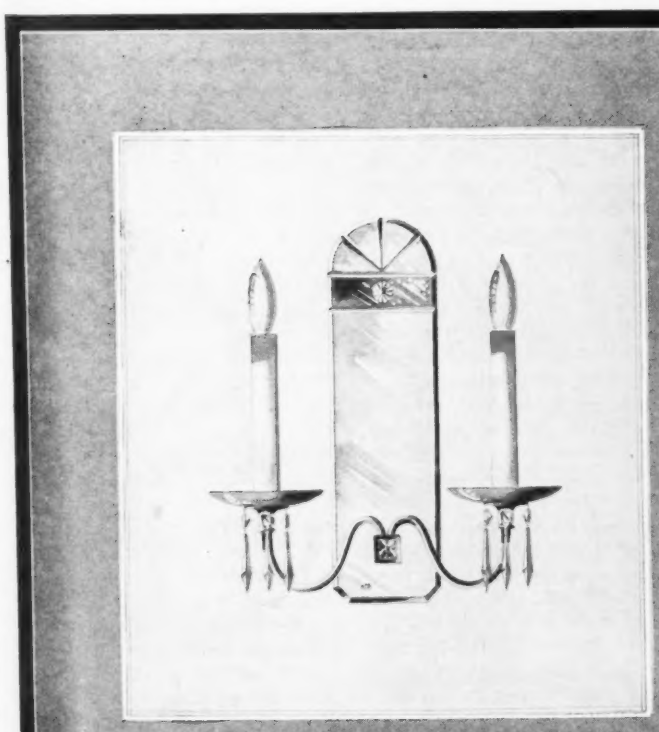

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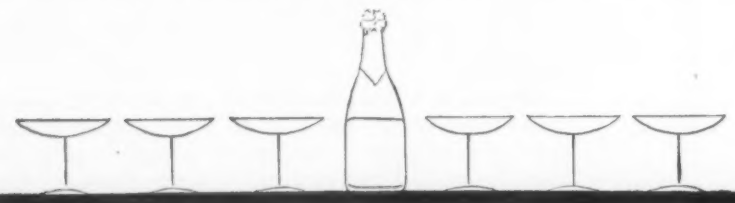

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Amenities of Rock Plant Collecting

(*Continued from page* 124)

(from seed, mainly) and placing them at our disposal. Most of them began in a very modest way—a few frames, a small plot of earth—but rock gardening has taken a mighty hold upon the imagination of Americans and all these budding efforts appear to be succeeding. One woman in the Northwest wrote me some time ago that she now has a stock of over three thousand plants each of *Gentiana sino-ornata* and *G. farreri*. This in a country where ten years ago cultivated Gentians were as scarce as sacred cows, is something to boast about. We owe an immense debt of gratitude, as well, to the collectors who have gone out into the wilds of the country, east and west, and are putting into our eager hands the choice citizenry of our own mountains, plains, woods and bogs. Most of these collectors, some of them busy and overworked women, have had to carry on their chosen avocation under great difficulties, using their meager spare time for this work of love, making exhausting treks into the mountains on foot, or in the faithful flivver, and utilizing their rare holidays for trips further afield. Many of them now have well established clienteles, both in this country and abroad, and as the interest in and understanding of this class of plants grow so will their prosperity. More and more power to them! we say, for they, with the patient specialists, are nullifying the crippling effects of Quarantine 37 and ever widening the horizon of the lover of rare and beautiful plants.

THE LONG ROAD

But while the case of the would-be rock gardener of 1929 in America is very different from what it was in 1909, not by any means has all the zest been taken out of the chase by easy success. Often you must wait years to find a plant you have read of or seen a picture of, and then it may be that you will not find the plant itself but may see, perhaps in some obscure seed list, the seed offered; and then you must wait until the seed has germinated, the plant grown and flowered, usually a matter of two years. And you wait patiently and happily. Only the ardent fisherman possesses the patience of the rock gardener. Sometimes your quest will end unexpectedly in some wood or bog, or even by the roadside, or in some garden visited by chance. Again you may receive the desire of your heart by way of the post from some total stranger who has learned, by some one of the mysterious ways that gardeners learn the wants of their fellows, of your interest in this particular plant or bulb. Again you will follow a will-o'-the-wisp clue hither and yon for months until you finally run it down in some garden or nursery and beg or buy a bit of the choice morsel which is to make the world seem a brighter place to you for weeks thereafter.

Occasionally in a parcel of plants received from a collector only one will prove of real value to you. Thus came to me that delightful little native of the Northwest, *Synthyris reniformis*. Its companions in the parcel proved of small account, too weakly in our rough climate, or of insufficient beauty. But *Synthyris reniformis* was a genuine find, a sturdy small thing with thick shining leaves and spikes of bright blue small flowers hoisted very early in the year. Interested and intrigued, I later followed up other members of its clan and found *Synthyris plantaginea* to be rather a poor dowd, but *S. rotundifolia* one of the most engaging atoms that it has been my good fortune to meet with. It is smaller in all its parts than its sister plant and blooms earlier, the little fringy bells appearing on their short stiff spike in March. They are pale blue in color. These plants like a cool situation in peaty soil that is not too dry.

A GEM FROM THE WEST

Thus, too, I came to know *Sisyrinchium grandiflorum*, brilliant cousin of the familiar Blue-eyed Grass. A package of plants reached me from the Northwest so late in the season that winter had practically set in in our hasty climate and I feared, as we tucked them away in the rock garden, never to see them again. Nor was I disappointed; they perished during the winter to a plant—all save one. Out of an unmarked grave arose very early in the spring a few rush-like leaves from the tallest of which presently swung two wide open bells of the most splendid rose-violet—not what we know as magenta, believe me—and of the most delicious satiny texture. It was a moment of great excitement. I could not imagine its identity or whence it had come. After the flowers had withered the plant died down and I thought it gone for good, but the following spring it again appeared and went through its enchanting performance. Later Mrs. Minto, from whom it transpired it had originally come in that belated and ill-fated parcel, sent me a photograph of the white-flowered form and so I learned its name.

The Sisyrinchiums are cousins of the Iris and there are numerous kinds of them that are worth growing if you can lay your hands upon them. There used to be a distinction (Nicholson makes it) between *S. angustifolium* and *S. bermudianum*, but Farrer ignores it. Yet the Blue-eyed Grass that romps about my rock garden is bluer, sturdier and altogether more of a personality than the little creature we find in the fields hereabouts. But I am no botanist. I have a delightful sort with cream-colored flowers that came to me unnamed in a package of plants from Texas, that richly endowed State, and which is perfectly hardy and seemingly permanent. California offers a yellow-flowered sort and there are numerous others—all American, north or south, though some of them have become naturalized in other countries. The Sisyrinchiums are small things that no one would consider growing anywhere save in a rock garden, but they are very lovely and repay the most minute scrutiny. They seemingly like a soil not too dry, especially *S. grandiflorum*, and when established will persist and increase for years, sowing themselves about in a cheerful random

(*Continued on page* 130)

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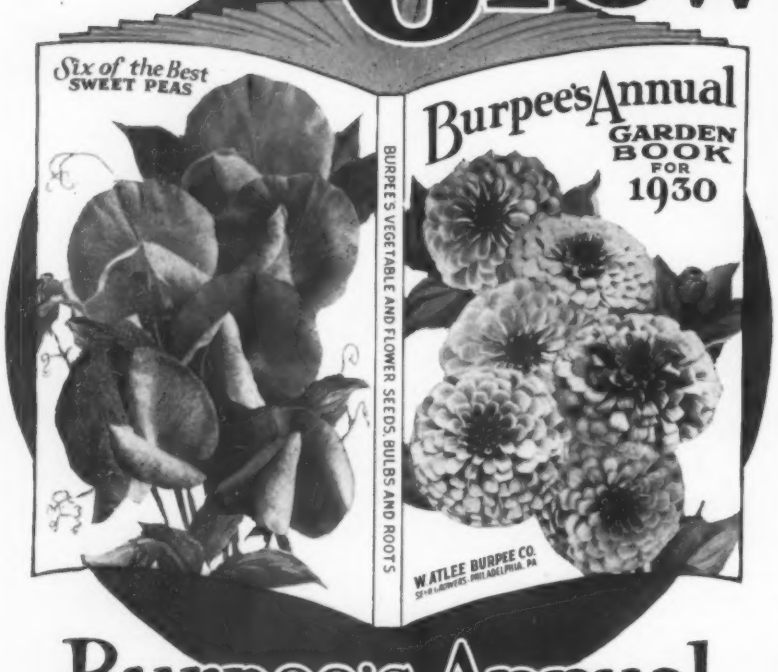
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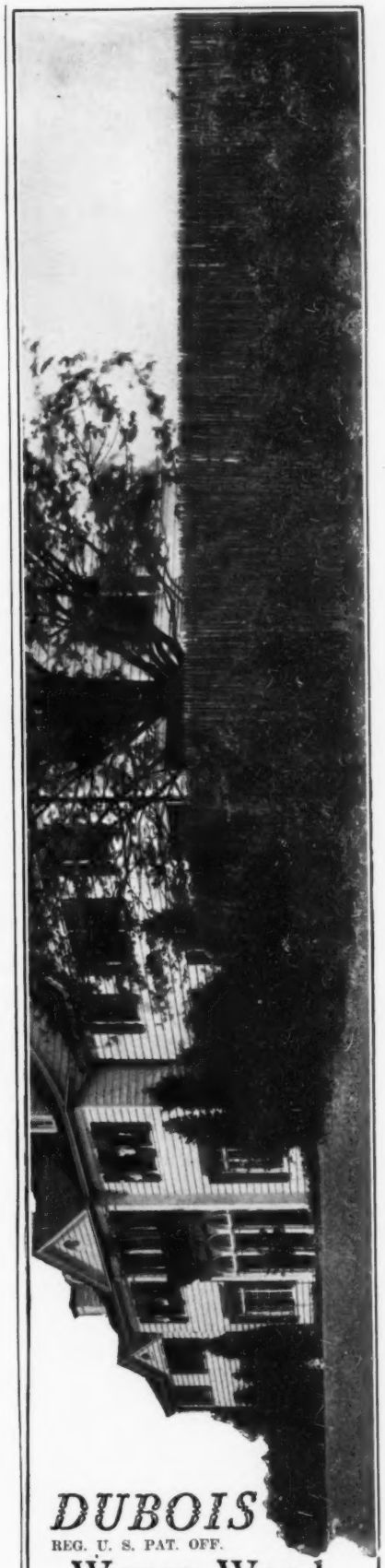

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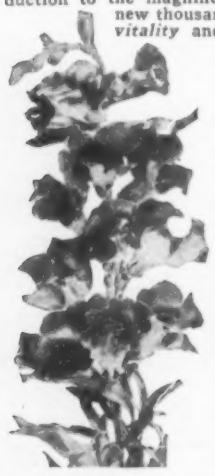

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Golden West, deep golden yellow; **Pathfinder,** rose pink; **Yosemite,** lilac purple; **Navajo,** canary yellow; **Wyoming,** carmine; **Seminole,** rosy lilac; **Narragansett,** silvery lilac; **Tenega,** rich sunset yellow; **Shasta,** pure white; **Massasoit,** wallflower orange; **Miami,** delicate rose.

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Victoria Aster, Golden Fleece—A lovely pale yellow Aster with faint suffusion of buff.....Pkt. $.35; 3 pkts. for $1.00

Larkspur, Los Angeles—Rich salmon undertone overlaid with a brilliant and pleasing rose.....Pkt. $.50

Two Lovely New Hardy Border Carnations (Earliest Dwarf Double Vienna)—will compel spontaneous admiration. The very early and profuse blooming qualities of both varieties make them especially valuable where fine cut flowers are wanted
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New Giant Pansy, Mrs. Pierre S. du Pont—Rich pure golden apricot blushed with salmon—glorious as a June dawn without center-lines to mar its beauty. Pkt. $1.00; .....6 pkts. for $5.00

Viola Olympica Royleana—A new gem for the Rock Garden. Long stemmed flowers of the true violet form, exquisite rich velvety deep royal blue.....Pkt. $1.00

Zinnia a Dahlia flowered "Youth"—In response to many requests for a light rose, we are now pleased to offer for the first time "Youth", a beautiful self rose with huge flowers of true Dahlia type. Pkt. $.50

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Veronica Teucrium, Royal Blue—This lovely new Gentian blue speedwell is a gem for the rockery and border. The plants are 1 foot high of spreading habit and are in bloom from June to August. .....Pkt. $.35; 3 pkts. for $1.00

Any single variety above may be bought separately at prices listed

Madison Ave. at 59th Street **Schling's Seeds** New York City
MAX SCHLING SEEDSMEN, Inc.

Rock Plant Collecting

(*Continued from page* 126)

sort of fashion but very seldom becoming a real nuisance.

Despite the improved conditions for collecting rock plants in this country certain kinds are still extremely scarce among us and well-nigh unprocurable. Among these are the Anemones. Of course we have many native Anemones that are worth including in any collection, but they do not approach in beauty the European kinds. *Anemone blanda*, for instance, is one of the most exquisite of flowers, with *A. apennina* and the various forms of *A. nemorosa* not far behind it. But you may search many a list without finding them upon it and they are slow and difficult to raise from seed. I have seen *A. vernalis* on a few lists during the past year and this is indeed a treasure; and of course the handsome *A. pulsatilla*, the Pasque Flower, in several colors is plentiful. *A. halleri* is occasionally to be found and is a very fine thing in the way of Pulsatilla, but more shaggy with silk and blooming somewhat later. It sulked with me until I moved it to a situation where the soil was slightly acid; then it picked up wonderfully and made a handsome show with its great purple blossoms. *A. pulsatilla* on the contrary prefers to have a limy soil.

Many of the Clematis tribe are easily raised from seed and are very effective grown on bold rockwork where the slender shoots may trail over great boulders or veil the larger bushes. They are, of course, not suited to any but large rock gardens. *C. alpina*, with blue flowers, *C. tangutica* and *orientalis* with yellow flowers and *C. crispa* with fragrant blue urn-shaped flowers may all be grown where there is space—but you may have to inquire widely before you find the seeds.

Of Primulas today in this country we may easily make a fine collection, of Campanulas a very fair one, of Pinks, Androsaces, Linums, Violas, dwarf Phloxes, Saxifrages, Gentians, Geraniums and Erodiums we may do well, but in Ranunculus, Corydalis, Sedum, Sempervivum, Alliums, Cyclamen, rare Iris species, Lithospermums, Meconopsis, Globularias, Phyteumas and many other choice subjects we are decidedly weak. We are, however, going forward in leaps and bounds.

Professor Bailey has written that "A real rock garden is a personal accomplishment of years of patient effort and it is born of a closer knowledge of plants than most other forms of gardening. . . . The true rock gardener slowly and accurately learns the kinds and requirements of saxicolous plants, fitting them into their places year by year until he finally accumulates a thriving collection as complete and perfect in its way as an old greenhouse full of choice and personal subjects." But the true rock gardener has a fault and the truer he is the more grievously does he sin. To him the plants are the beginning and end of his interest; the eye of the beholder is nothing to him. Were there space much could be said on this point. Suffice it to say that now that landscape architects in good standing are becoming rock garden conscious—even though against their will—a more gracious and lovely type of rock garden may be hoped for. But the R. G. and the L. A. must come together and each be willing to concede something. At present they stand apart and glare at each other. Perhaps it is safe to say that few L. A.'s have as yet built rock gardens that were successful from the point of view of housing a collection of rare plants, and it is undoubtedly a fact that no lay R. G. has ever built anything that did not elicit a snort from the professional L. A. But let each get the point of view of the other and great things may be hoped for.

I shall be glad to furnish upon receipt of an addressed envelope a list of dealers and collectors who are specializing in rock plants.

House & Garden's Bookshelf

THE HOUSE DESIRABLE, By P. A. Barron. London, England: Methuen & Co.

THE author of this book undertakes "to prove that beautiful homes need not necessarily cost more than those that are ugly."

"I have motored," he says, "a great many thousands of miles about the country," (England) "and wherever I have seen a cottage or house which has impressed me as having charm, or any unusual features, I have stopped to study it, and, in many cases, to photograph it."

He narrates, often delightfully, his experiences with the owners of such homes: "In general I have come to the conclusion that owners of charming houses are always charming people. I will leave philosophers to decide which is cause and which effect." We judge from the spirit of the splendid book he has written that some of the owners' charm is a reflection of the author's own delightful personality.

In this book of beautiful illustrations and fascinating descriptions of small English houses and cottages, Mr. Barron begins right at the beginning to give valuable hints as to the choice of a site for a home—the advantages and objections to be considered—the selection of an architect, the planning of the house, how to have a "New 'Old' House," and engagingly carries us along all the interesting stages of building to the finishing of the surrounding terrain in his chapter "Gardening in a Hurry." "The Garage Desirable"—is a valuable addition and his illustrations of "Plans and Elevations"—decidely enlightening. But the outstanding feature of the book, and that which distinguishes it from others of its kind, is the persistent emphasis in text and illustration of the "New 'Old' House." He makes it quite clear that lovers of antiques can have either a completely or partially new

(*Continued on page* 134)

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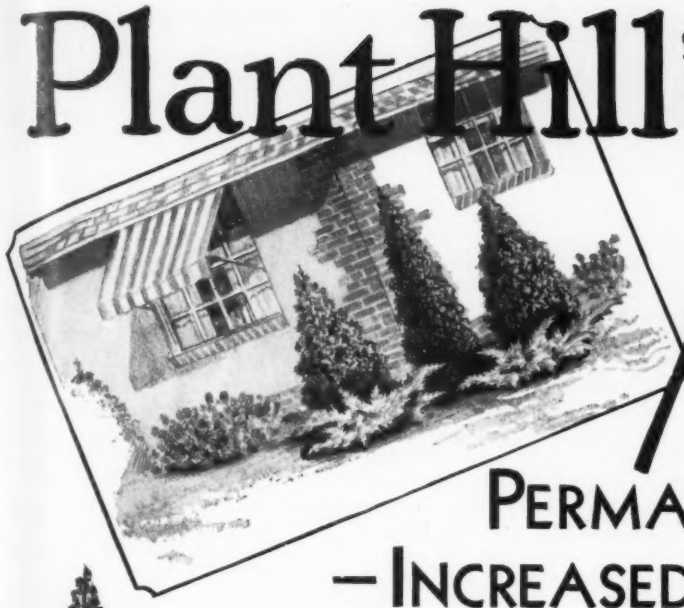

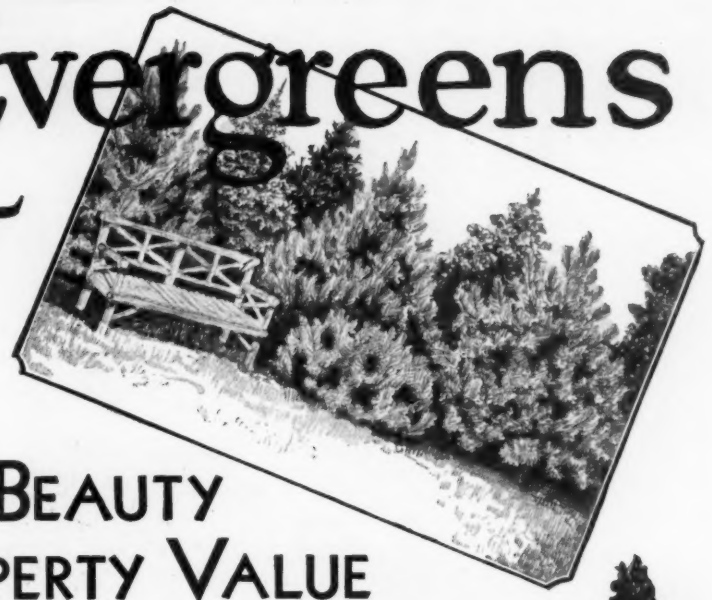

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This is a typical English Garden

BORDERS GROWN FROM SUTTON'S SEEDS

YOU HAVE often heard of the floral beauty of English gardens. The illustration above pictures a garden walk bordered with exquisite flowers on one of the larger estates. All the flowers are grown from Sutton's Seeds—the kind that are preferred throughout the length and breadth of the British Isles. Care and climate do not have so much to do with the quality of the blooms as quality of seed, and where Sutton's Seeds are planted results are as pictured above.

The House of Sutton & Sons was founded in 1806. The fourth generation of the Sutton family now manages all activities. The accumulated experience, knowledge and skill that are the heritage of the Sutton family are applied to the selection, breeding and testing of seed and the improvement of the many varieties. So great has been the success of the House of Sutton & Sons that it has been for generations, By Appointment, Seedsmen to the Royal House of England.

In the United States, Sutton's Seeds are becoming better and better known. Gardeners of large estates as well as thousands of home owners and amateur gardeners find that they get better results, bigger and better flowers, from Sutton's Seeds than from any other kind they have ever grown. Whether annuals or perennials, hardy or half-hardy, tall or short, early or late blooming, for the border or for bedding, Sutton's Seeds offer a variety that for quality, sturdiness, profuse blooming and sure germination are not surpassed.

With ordinary care Sutton's Seeds will grow and bloom anywhere. They are so thoroughly tested that practically every seed is sure to grow. They are true-to-type and uniform in quality. You will make no mistake in ordering Sutton's Seeds for your next summer's garden. The first step is to send for

Sutton's Amateur's Guide in Horticulture and General Garden Seed Catalogue

While a catalogue, this book is more. The illustrations are unusually large and clear. The introductions to the various varieties and the specific descriptions of each flower make it an easy matter to know what to select, where to plant to get the best color results, and when to plant to make sure of the longest succession of bloom. The book answers many questions that puzzle the inexperienced. Sent post-paid on receipt of thirty-five cents in stamps or International Money Order. To save time and possible delay we suggest that you write for it today.

SUTTON & SONS DEPT. 14 READING, ENGLAND

Sutton's Seeds

England's Best

House & Garden's Own House

(*Continued from page 64*)

one commands an unbroken vista outdoors. The Japanese use this idea in some of their important rooms and we might as well adopt it. Moreover, there is little need for using small panes of glass. In Colonial days window panes were made small because glass was both expensive and difficult to make; the machinery of the day could only turn out little panes, and, besides, the State laid a heavy tax on windows. To use small panes in a modernist house would be a silly anachronism. The muntins on all the windows used throughout the house are horizontal, so that the observer can have a clear vision without vertical obstructions.

On this main floor there still remains the service wing. This is laid out in the long area. A lavatory and flower room in front; then a little entrance corridor with two large closets. Behind this the kitchen, pantry and a little breakfast nook. Off the last is laid out a breakfast garden, which separates the service yard in front from the vegetable garden behind. This would be kept planted with brilliant flowers. Beyond and down a passage are two servants' rooms and a bath, one of which could be used for a servants' dining room.

THE BASEMENT

The old-fashioned cellar was and still is the hiding place for all the undesirable junk and refuse a family collects over a period of years. Into this part of the house guests never enter and the family rarely. The furnace is usually placed in a dominant central position and the area around it subdivided in a helter-skelter fashion into storage for coal, wood, old furniture, summer screens, winter potatoes, old trunks, etc. With modern construction and modern equipment, this basement can be dry, well-ventilated and well heated, and, following the custom of taking your fun at home, which, thank Heaven, has become fashionable once more, there is no reason why the greater part of this basement should not become one of the most attractive and interesting areas of the house.

Here we have turned the major part of the basement into a party and game room, bar and gymnasium combined. On the floor is a croquet game laid out in linoleum. At the one end the large fireplace has comfortable seats on each side, and at the other is a tiled bar room. The walls may be of ordinary cinder blocks of varying sizes laid up with white cement joints or they can be decorated in any amusing style one pleases. Metal ducts and a fan will provide this party room with plenty of fresh air. And since air is provided, it can also be equipped with an electric horse, Indian clubs, electric vibrator and the other paraphernalia of the home gymnasium.

In addition to this large area, ample provision is made for the boiler room, laundry, plenty of closet space for fruits and vegetables and a special trunk and storage room with walls, ceiling and floor lined with cedar.

On the second floor, which is reached by the circular staircase, are three bedrooms—a master's suite at one end, an older child's room in the middle and the nursery at the other end. Each bedroom is large enough for twin beds and each is provided with its private bath. The last item has become essential to modern living. We demand it in our hotels—"1400 rooms, 1400 baths"—and the day will come when, in speaking of a house, we will refer to it as "five bedrooms, five baths".

Off the master's bedroom is a sleeping porch—the upper part of the sun parlor below. Here is ample space for twin beds, and it can be used the year 'round, with the glass open or shut as one pleases. Thus the master's bedroom becomes his upstairs sitting room, with appropriate furniture.

There are two closets in the master's bedroom, two in the passage, space for a safe and a commodious linen room at the end.

In arranging the bathroom facilities of the master's suite we have departed from the stock layout. Two lavatories are provided. The tub is in its compartment and the shower in its special glass enclosure, while the toilet is independent of the other three.

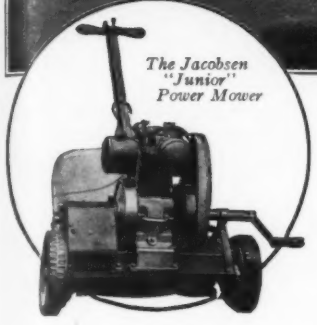
From the nursery or child's room is an open-air play roof extending over the service quarters below. This has a six-foot parapet broken by child-proof grilles. The floor is laid out in colored tiles in a parchesi game.

Off the stair hall on this floor is the sewing room, with necessary closets and a wide counter to be provided with a roll of wrapping paper and facilities for doing up parcels. A fireproof clothes chute runs directly from this second floor room to the laundry in the basement.

ROOF DECKS

All the roofs of the one-story structures are used as decks or terraces which can be reached by any and all of the bedrooms. This not only makes an attractive feature from the standpoint of convenience and being in the sun, but it affords a means of escape in time of emergency. Tile in decorative patterns gives these flat roofs a pleasant aspect from the air, an angle of vision on the modern house that improved aviation will soon require. Scuppers, as on ships, rim the edges of these roofs and water is carried off by drain pipes in the walls.

A three-way switch is provided beside the master's bed, so that all the lights throughout the house may be immediately turned on. On this same switch there could be a connection to flood lights concealed in surrounding trees giving illumination to the garden when the owner is giving a party.



The Jacobsen "Junior" Power Mower

The Jacobsen "Estate" Mower in Ebertspark, Ludwigshafen, Germany

Beautiful Lawns *with Jacobsen* Power Lawn Mowers

FOLLOWING a many years' conquest of the power lawn mower field in America, Jacobsen Power Lawn Mowers have captured the hearts of European Estate Keepers in competition with prominent foreign makes.

Jacobsen Power Lawn Mowers are quality built—speedy, durable and efficient. There is a size and type for every lawn from ¼ of an acre up. They earn their cost in time and labor saved and create a healthy, beautiful turf.

The "Estate" Mower is Roller Driven and cuts a 24-inch swath. It is specially designed for the fine lawns of private estates. The Jacobsen "Junior" is a quality power mower with a 19-inch cutting reel and is suitable for moderately large lawns, or lawns with numerous obstructions and terraces.

WRITE for Free Catalogue—"Lawns Beautiful." It describes the exclusive features which have won prominence for Jacobsen Mowers everywhere.

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The Beauty of Your Plantings Can Only Equal the Care of Your Selections

THE effect you have so carefully planned will find expression only to the extent to which *quality* is the true characteristic of the plants you select. Assurance of that *quality* is found in the House of Barnes Bros., with whom *quality* and *integrity* are a tradition.

Soon the time will be here for making your spring selections. Let them be sturdy plants from the rugged New England environment in which Barnes Bros. plants are reared. Send for *new* catalog now.

THE BARNES BROS. NURSERY COMPANY
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BARNES BROS. NURSERY
Established 1890

Be Certain YOUR Landscape Plans and Plantings are Correct

Entrust these vital problems to those fully experienced in creating distinctive and beautiful home surroundings. Landscaping is essentially the work of an artist with thorough knowledge of plant life and design.

Hundreds of American homes owe their attractiveness to Green's Landscaping Architects. Why not let them design the plantings for your entire grounds? They are experts who know blooming periods and the correct effects obtained by the proper combination of colors and varieties. Complete details explained in

Green's New Catalog

Distinctively different. Illustrated in Nature's colors with helpful planting information. The result of over 50 years' experience.

New Varieties—Shrubs—Flowers—Fruits

"Approved by Green's"

Each has proved itself worthy of our endorsement, therefore, you can buy them with complete confidence.

In addition to the many new varieties there are hundreds of others including those good old standbys that Grandma loved—all ready to enhance your home grounds. Satisfaction guaranteed.

Green's new Catalog sent you on request.

"It's Not A HOME Until It's Planted"

GREEN'S NURSERY COMPANY
25 Green Street Rochester, N. Y.

The Storrs & Harrison Co's. 1930 Spring Catalog.

JUST off the press—the beautiful new catalog of America's Oldest and Largest Departmental Nursery. More illustrations in color than ever before—more new charts and diagrams to help you beautify your grounds—and the most complete listing of trees, shrubs, plants, seeds, etc., including uncommon varieties not usually found in the average Nursery catalog.

Illustrating and describing America's most complete assortments of

TREES · PLANTS
SHRUBS · VINES
SEEDS · ETC.

The Outdoor Living Room and Rock Garden

Easy-to-follow instructions on how to plan and plant a modern Outdoor Living Room or Rock Garden. Whether you plan to landscape your entire place or merely set out some new plants, you need this catalog. Send for it.

Mail this Coupon

The STORRS & HARRISON Co.
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Address.....

The Voque for the
Outdoor Living Room
sweeps the nation

FASHION has decreed that no home can be truly modern without one. New homes are planned with the outdoor living room in mind. Established homes are being modernized by the addition of one.

You can enjoy an Outdoor Living Room this summer. The creation of a beautiful outdoor living room is a simple matter and need not be expensive. Plan it as you would a room indoors. Let grass provide the soft rich carpet—plant trees, shrubs and evergreens to give privacy and screen unsightly view—add color and fragrance with hardy flowers. Do this and you have a modern outdoor living room which will increase in value and beauty each year.

Write or consult your nurseryman or his representative. Any nurseryman displaying the insignia shown at the bottom of this page will gladly help you beautify your grounds.

These Books Will Help You Beautify Your Grounds

—"How To Plant The Home Grounds," edited for home owners by E. H. ("Chinese") Wilson. Sent FREE.

—"How To Make An Outdoor Living Room" tells how to plan and plant one. Send 25c.

Plant this Spring!
TREES-SHRUBS & FLOWERS

H.G. 1-30

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Gentlemen: Please send me booklets as checked below:
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Name.....
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NATIONAL HOME PLANTING BUREAU
Sponsored by the American Association of Nurserymen

House & Garden's Bookshelf

(*Continued from page* 130)

and modern house that does not look the part but maintains an Old World charm, with sagging thatch-like roof or really ancient tiles. An exposition of the appropriate use of old materials is a distinguishing feature of the book. This renders a distinct service and one which we wish might be inaugurated in America before the present period of rapid demolition and reconstruction shall have made such an effort useless.

One of the stories Mr. Barron tells is of the important contractor whose work on a short-time exhibition building was being delayed by the bricklayers who were laying only 300 bricks a day. It became apparent that at this slow rate it would be impossible to finish the building by the required date. Stopping in the evening to note the progress, he found his foreman mourning over the delay. Taking off his coat and rolling up his sleeves he said: "Look here, Tom, we'll show them what *we* can do." During the night he and Tom each laid 1000 bricks and shamed his workmen into giving honest measure of service. They so admired his pluck that he not only had no further trouble with them, but they aided him "to become one of the leading lights in the building world."

G. G. G.

GENUINE ANTIQUE FURNITURE. By Arthur de Bles. New York: Thomas Y. Crowell Company.

THE outstanding feature of this book is that the writer seems to be telling his story by word of mouth, which adds incalculably to the effect of the many interesting items of his work. You find yourself reading along with zest, as if you were turning the pages of a story book. Suddenly you blink, as you realize you have been reading printed words, not listening to audibly spoken ones. Then you recall that Mr. de Bles is a distinguished lecturer, which accounts for the easy personal touch his written expression conveys.

The book treats of furniture from Gothic times to that made in America in 1840, and is illustrated with 76 photographs and 85 sketches. The vivid manner in which the material is presented, the accuracy of the facts, the sound judgment of the opinions set forth, and the fairness of the appraisals make this an acceptable work to any one who knows that there really is such a thing as genuine antique furniture.

The chapters on "Furniture of the Late Italian Renaissance" and "The Renaissance in France" are particularly enjoyable. His material on "The Windsor Chair" in "Part III. American Furniture" is especially interesting because of the advancement of a hypothesis that instead of being originally an English product, named from Windsor Palace in the time of George III, it really originated in Windsor, Connecticut, being made in New England and exported to the old country.

His estimate of Duncan Phyfe is at least open to discussion. Furniture from Phyfe's shop, or attributed to his shop on grounds of almost indisputable evidence, is turning up at frequent intervals, so that experts are being given new material each season on which to base their conclusions. Witness the notable Loan Exhibition of Early American furniture held at the American Art Galleries, Anderson Galleries, Inc., in October under the patronage of The National Council of Girl Scouts.

G. G. G.

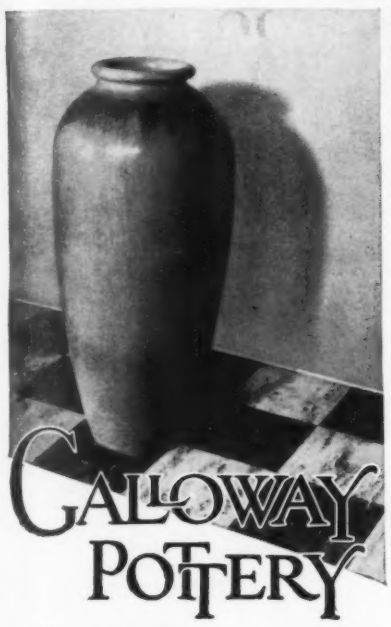
MUSHROOMS OF FIELD AND WOOD. By Margaret McKenny. New York: The John Day Company.

MARGARET McKENNY is one of those unusual people who combine the accurate, fact-seeking mind of the scientist with the broader, more esthetic appreciation of the nature-lover pure and simple. To her, the structure of a bird's feather or the petal arrangement of a flower is not merely a key to the lock of identity; she can and does enjoy them quite as much for their quality of beauty and perfect adaptation to the purpose for which they were created.

Now, when a person like this sets out to write a book on any branch of natural history we are justified in expecting something well above the ordinary. We look for it to be specific and accurate but not dry, appreciative without foolish sentimentality, informative and at the same time lightened with occasional little digressions which humanize its interest. Miss McKenny has lived up to all these expectations in *Mushrooms of Field and Wood*; she would probably have been equally successful were her subject trees, fish, or the rocks of the eternal hills.

Mushrooms of Field and Wood is a small volume, admirably illustrated with halftones and several color plates by the author, which emphasizes the interest which native fungi hold for all who will examine them seeingly. To slip a copy into one's pocket on an exploring trip to the woods in mushroom season is to be awakened to a hitherto probably unsuspected pleasure. Even the veriest bit of thicket or meadow holds lowly fungoid treasures of a loveliness of form and color and texture that sometimes seems hardly of this earth. Questions of edibility pass from one's mind quite as completely as they did from Miss McKenny's when she planned the book, for here is a whole fresh phase of Nature lurking in the shadows. One is tempted on and on, searching this way and that in what soon becomes an absorbing pursuit. A quest which has its own thrills of discovery, too, for the true mushroom-fan never knows what rare kind he may find on the next crumbling stump or behind that great boulder over yonder.

R. S. L.



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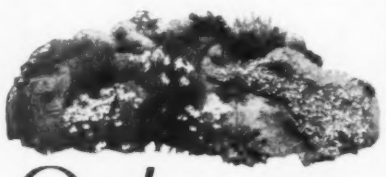

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12 VARIETIES $1.00 only

NOT plants (for which see Catalog) but *packets of seeds*—each packet containing enough for many plants. 6 kinds of Annuals, easy to grow, giving wealth of bloom in variety of colors through entire summer of first year—Sand Verbena, Lobelia Compacta, Little Gem Alyssum, Rosy Morn Petunia, Dwarf Mixed Phlox, Dwarf Mixed Calliopsis. 6 kinds of Alpine Perennials, bloom from early spring till late fall, next year and thereafter, in many colors—Purple Rock Cress, Hare Bell, Stoke's Aster, Gold Dust, Soap Wort, Snow-in-Summer. You should get 100 or more vigorous plants, by just sowing these hardy varieties next spring in Rock Garden, out of doors. **Complete directions for building Rock Garden and sowing seed included free. Send only $1.00.**

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"Secrets of Good Gardening"

Written especially for home gardeners. 40 pages of sound advice—how to plan garden to be a neighborhood gem, raise prize blossoms and vegetables, overcome insects and diseases, what to plant, where to plant it for best effects, what vegetables to grow, etc. Ask for a free copy of this book and catalogue.

[*General Catalogue of Seeds, Flowers, Etc., FREE. 108 Pages.*]

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The Gardener's Scrap Book

SOIL FOR WILDFLOWERS

IT is a natural procedure, when transplanting wildflowers from their native haunts to the garden, to provide them with soil which, many times, is a good deal richer than that in which they had been growing. Solicitude for their welfare usually results in their being better fed than ever before in their lives.

Now, this rich fare may be a good thing, or it may not. It generally produces increased growth, but sometimes the plants subjected to it are actually harmed by over-eating. Even where the general health is benefitted and greater size produced the net result is not always pleasing, as the increased vigor may take the form of larger stalks and leaves without corresponding improvement in the blossoms.

In general, the safest rule to follow is to set the plants in the same sort of soil as that to which they are accustomed, without any extra enrichment. The freedom from competition with other growths, which results from bringing them under cultivation, is usually enough to bring about whatever improvement may be desirable.

NEW PLANTS FOR FORCING

THE whole matter of wildflower appreciation is growing steadily year by year as the merits and variety of our native flora are brought to public attention through the efforts of a few earnest pioneers. We are fast learning to value them properly in many kinds of outdoor planting, and there are even scattered indications of some of them being recognized as worthy subjects for indoor forcing during late winter and early spring. This latter type of cultivation is still experimental in the main, but it gives promise of interesting results.

One fact that the pioneers of wildflower forcing have estab-

10 Maloney Guaranteed Shrubs
Worth $4.50—Special $3.95
—3 Japanese Barberries, 3 Forsythias (goldenbell), 2 Hydrangeas, 2 Flowering Almonds. Shipped *postpaid* at planting time for only $3.95 *if ordered now.*

20% of Your Order Added Free
Plants *of your own selection free*—50c worth with $2.50 order, $1 worth with $5 order, etc. See Catalog.

New Unit Plantings Save Money
Assortments of *different* plants, to turn bare lawn into complete blooming garden—$9.00 up. See free Catalog.

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Dwarf Fruit Trees

Apple Peach Cherry
Plum Pear Apricot

Fruit in half the time and need half the usual space.

Make Your
Grounds Beautiful
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Vines
Roses
Trees
Shrubs

Planting Sketches Free

Our catalog is chuck full of good things to plant. Ask for it.

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EVERY lover of roses may have a copy of our "New Guide to Rose Culture." It is free on request. Tells how easily roses may be grown, how they add to the attractiveness and value of every home. We have been growing roses for 80 years and have helped tens of thousands of friends all over the country. Send for this free help today. New and old varieties of roses are shown in beautiful natural colors. Also hardy shrubs and other flowering plants, bulbs. Write us. THE DINGEE & CONARD CO., Box 172, West Grove, Pa.

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Star Roses!

"Stars" in every sense of the word . . . in all our 33 years we've never had finer plants . . . sturdy . . . outdoor grown and eager to bloom. Star Roses progress with the times and this year's catalog (our helpful "Star Guide to Good Roses") shows only tested, proven varieties. Star Roses are never cataloged until we *know* what they'll do in *your* garden. That's why you get the most for your money, why we can so safely guarantee *every* Star Rose to bloom.

★ ★

This year we show five lovely novelties—brought to present perfection in Star test gardens and now ready to bloom in *your* garden:

***Mrs. Pierre S. du Pont. HT*—The "perpetual motion" golden yellow rose. Seldom without buds or blooms from May till November.**

***Mme. Gregoire Staechelin, the Spanish Debutante*—climber—first deep maroon; then graduated carmine to pearl; deliciously fragrant.**

***Director Rubio. HT*—cerise-scarlet—very large, sweetly scented, holds color through rain or shine.**

***Mari Dot. (Pernet).* Bedding rose. Deep apricot darkened with orange slowly changing to apricot pink. Delightfully perfumed.**

***Li Bures. (Pernet).* Maroon lightened with orange and yellow—then velvety purple crimson. The polychrome Rose. Gorgeous!**

★

46 Star Roses are shown in full, natural color in this year's catalog. It is a veritable "Book of Roses", offering over 200 varieties. It will make you want to grow roses this summer—but what more pleasure can you have these long winter evenings than picturing these selfsame trademarked Star Roses in *your* garden?

The "Star Guide" itself is richer, more beautiful, more helpfully interesting than ever before. It's free—of course—so send for it today.

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Robert Pyle, Pres.
Star Rose Growers
Box 126 West Grove, Pa.

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Please send your 1930 "Star Guide to Good Roses" at once.

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"How To Landscape The Home Grounds" is written *specifically* for those who wish to landscape their own grounds without the aid of a professional Landscape Architect.

It was compiled by a prominent Landscape Architect and is written in simple language that any one can understand.

Each Step Illustrated

Simple charts and drawings show you each easy step from start to finish. Plans and cost estimates for every type of home are included.

This book tells in detail how to arrange trees, shrubs, vines, etc.; how to make an Outdoor Living Room or a lovely Rock Garden, and how to choose the right variety for each location. Send ONLY 10c

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Gentlemen: I enclose 10c, for which please send your booklet, "How To Landscape The Home Grounds."

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THE GARDENER'S SCRAP BOOK

lished is the need of the plants being subjected to a long period of fall and early winter chilling before being brought indoors. Unless they are thus "seasoned" normally they simply refuse to bloom under the artificial conditions, even though flower buds appear and considerable leaf growth is made. One of the best methods of handling them is to pot up the plants in late summer, leaving the pots outdoors in a congenial, normal situation until after the first of the year. Then bring them indoors to a fairly cool room where they can thaw gradually and, when new growth appears, move them to a sunny window where they are never allowed to dry out.

WINTER EROSION

WINTER rains have a way of causing quite as much damage in the garden as their brothers of warmer days, for on sloping ground they not infrequently bring about severe erosion which buries some plants far too deeply and exposes the roots to all the rigors of an inclement season. Being unable to sink deeply into the ground because of the frost, the water courses along on top, thawing enough of the surface soil to spread thick layers of mud and debris over the low areas at the expense of the higher portions.

There are various ways in which damage of this sort can be minimized, depending upon the individual situation. Terracing the slope is one, in which case the beds themselves are made level and are provided with little turf or stone retaining walls between the various levels. Where this is impracticable, try diverting the water before it can flow far enough to do damage, carrying it to some portion of the slope which is not planted; in accomplishing this any available material may be used temporarily, such as boards, stones or heavy clods. Again, it is sometimes possible to check erosion by laying evergreen boughs flat on the surface of the slope, or even placing rolls of sacking across the direction of the flow so as to break its force.

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If you will send us 10 cents, and mention where you saw this advertisement, we will mail you Henderson's new catalogue, "EVERYTHING FOR THE GARDEN," and the new Henderson 25c Rebate Slip.

Every Rebate Slip Counts As Cash

The Henderson Rebate Slip, when returned to us, will be accepted as 25c cash payment on any order of Two Dollars or over. In addition, we will include with your order, without charge, our Henderson Specialty Collection of six of our best-known introductions.

One packet each of Ponderosa Tomato, Big Boston Lettuce, Early Scarlet Turnip Radish, Invincible Asters, Brilliant Mixture Poppies, and Giant Waved Spencer Sweet Peas.

"Everything For the Garden"

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Northern Grown
ROSES

ASK any authority and he will tell you that Roses rarely do well when moved from a more southerly climate to a Northern planting.

Our Roses are the hardiest grown, the largest size and best rooted to be had.

We will gladly send you our catalog if you really intend to plant roses and mention House & Garden. Our catalog is different; we do not copy the European description, but tell how they grow in our Nursery.

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Also a complete general line of nursery stock.

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ROSES OF NEW CASTLE

These world-famous Roses of New Castle, grown in the fertile soil of New Castle, are the sturdiest, easiest growing rose plants in America. Our collection includes every desirable rose now known; we also carry a complete list of miscellaneous garden plants. Everything worth while—for home planting—and the prices are right.

Our Rose Book for 1930—
(and it's free)—
"ROSES OF NEW CASTLE"

tells you how to make rose growing a success. The most complete book on rose culture ever published, elaborately printed in natural colors. Gives all information you need. It's free. Send for your copy today.

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Trellis No. 1024 2 ft. by 8 ft. Special 95c

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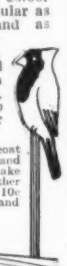

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HOUSE & GARDEN

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Schenley Gardens Inc.

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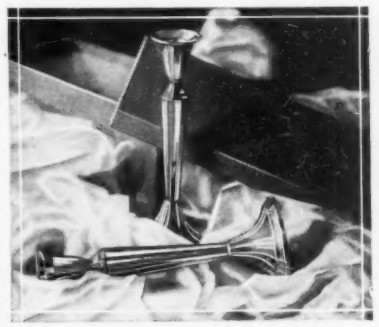

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While every precaution is taken to insure accuracy, we cannot guarantee against the possibility of an occasional change or omission in the preparation of this index.

TRADE LITERATURE OF INTEREST TO PROSPECTIVE HOME BUILDERS

EACH MONTH THERE WILL BE BRIEFLY REVIEWED ON THIS PAGE A NUMBER OF THE NEW BROCHURES, PAMPHLETS AND CATALOGS WHICH HAVE BEEN ISSUED BY CONCERNS IN THE BUILDING, DECORATING AND GARDENING FIELDS. THIS ISSUE IS DEVOTED TO MANUFACTURERS IN THE BUILDING FIELD.

RADIATORS

MODERN IDEAS IN RADIATORS. The McQuay Modern Radiator is described as not merely a cover or shield for an old radiator, but as a complete piece of heating equipment in itself. Both visible and concealed types are shown, and also a particularly interesting model made especially for the bathroom. The advantages obtained by using this radiator are explained from both the standpoints of health and economy of operation. MCQUAY RADIATOR CORPORATION, 35 EAST WACKER DRIVE, CHICAGO, ILL.

HEATING EQUIPMENT

LUXURIOUS AUTOMATIC COAL HEATING. The advantages of the automatic heat furnished by the Iron Fireman De Luxe, are discussed in this booklet. Any heating plant can be equipped with this machine, which has a clock thermostat that will maintain the fire at an even temperature. The text explains the method of operation, and how a saving in labor and fuel is effected by the use of this machine. IRON FIREMAN MANUFACTURING COMPANY, PORTLAND, OREGON.

INSULATION

SPRAYO-FLAKE, THE LOW COST EFFICIENT HEAT INSULATION. The application and the advantages of Sprayo-Flake are explained in this booklet. It is an insulation material that is sprayed on by guns, covering every chink and crevice. All the work is done by thoroughly experienced mechanics, and inasmuch as only one simple operation is necessary there is a great saving in labor. SPRAYO-FLAKE COMPANY, 56 SOUTH BAY STREET, MILWAUKEE, WIS.

INSULATION BOARD

THE HOUSE THAT GREW UP. An interesting story of remodeling and repairing with Weatherwood is given in this booklet. Several small sketches show how attics and basements have been made over into livable rooms by the use of Weatherwood, which is a rigid structural insulating board that provides great structural strength. Suggestions are offered for the application and finishing of Weatherwood. CHICAGO MILL AND LUMBER CORPORATION, 111 WEST WASHINGTON STREET, CHICAGO, ILL.

TILE ROOFS

ROOFS. This beautifully illustrated book shows colored photographs of a number of residences roofed with Imperial Roofing Tiles, which are available in an extensive variety of shapes, shades and textures, adaptable to many types of architecture. Weatherproofing, fireproofing and insulation are among the advantages offered by the use of these tiles. A charge of twenty-five cents is made for this book. LUDOWICI-CELADON COMPANY, 104 S. MICHIGAN AVE., CHICAGO, ILL.

HOLLOW TILE

HOMES OF PERMANENCY. A folio of house designs prepared by the Architects' Small House Service Bureau for the Structural Clay Tile Association as examples of good residences constructed in clay tile. Over fifty one and two story dwellings and their plans are illustrated. These houses contain from four to six rooms each. Detailed plans and specifications from which they can be erected may be secured from the Association at low cost. THE STRUCTURAL CLAY TILE ASSOCIATION, 1400 ENGINEERING BUILDING, CHICAGO, ILL.

VITREOUS MARBLE

BEAUTIFUL SANI-ONYX, A VITREOUS MARBLE. A profusely illustrated booklet showing graphically just what Sani-Onyx is and the various uses it may be put to in the home, and in stores, etc. Full color illustrations of bathrooms, kitchens, breakfast rooms in which walls, floors and ceilings are covered with Sani-Onyx, occupy the first section of the booklet. Sani-Onyx is available in five surface textures and in several standard colors. MARIETTA MANUFACTURING COMPANY, INDIANAPOLIS, IND.

FLOORING

ZENITHERM FLOORS. The desirability of Zenitherm as a floor and wall material is the subject of this booklet. The attractive appearance and durability of this material, combined with its value as an insulator, make it suitable for the exterior as well as the interior. Since it is available in several colors and sizes, it can be made to harmonize with almost any architectural effect. Photographs show several residences in which Zenitherm has been used. ZENITHERM COMPANY, INC., 110 E. 42ND ST., N. Y. C.

WATER TUBING

CHASE COPPER WATER TUBING. Advantages of Chase Copper Water Tubing are listed in detail. Inasmuch as the tubing is made of copper it is absolutely rust-proof. Because of its flexibility it can be bent around corners as easily as a rubber hose, thus eliminating the necessity of joining sections of pipe together by fittings, and obviating cutting into walls and floors when replacement work is being done. CHASE BRASS & COPPER COMPANY, WATERBURY, CONN.

BATHROOM CABINETS

MORTON STEEL BATHROOM CABINETS. Styles of Morton Cabinets for general use, and individual ones designed especially for a man or a woman are illustrated and described. If desired the cabinets can be finished to harmonize with the tiles or the color scheme. A selection of Venetian mirrors is offered for those who prefer to have a cabinet with an all mirror door. The various exclusive features of the construction of Morton cabinets are explained in detail. MORTON MANUFACTURING COMPANY, CHICAGO, ILL.

BATHROOM FIXTURES

COLOR AND STYLE IN BATHROOM FURNISHING AND DECORATION. This extremely attractive brochure contains a number of illustrations in color, of bathrooms equipped with Standard Plumbing Fixtures. The origin of each of the colors shown, is explained in detail. Floor plans for several bathrooms are given. Much space is devoted to a discussion of the bathroom as an important part of the interior decoration scheme. The distinguishing characteristic of "Standard" colors is purity, both in the delicate hues and the deeper shades. STANDARD SANITARY MANUFACTURING COMPANY, PITTSBURGH, PA.

WINDOW GLASS

FLAT GLASS AND LIBBEY-OWENS. The story of flat glass from its early history to its use at the present time is given in this booklet. The different processes that have been used in making flat glass are explained and illustrations and text show the method now used by the Libbey-Owens Company. THE LIBBEY-OWENS SHEET GLASS COMPANY, TOLEDO, OHIO.

HARDWARE

MODERN AMERICAN DESIGNS IN SARGENT HARDWARE. Door hardware shown in this catalog was designed to conform with the modernist movement in architecture. With examples of door escutcheons and knobs produced by Sargent's own designers are a few types executed upon special order from individual architects' designs. While these cannot be purchased they afford an idea of the capability of the company in this line of work. SARGENT & COMPANY, NEW HAVEN, CONN.

METAL TILE

THE BEAUTY OF TILE AT FAR LESS COST. An eight page folder shows color illustrations of interior walls covered with Chromite. Chromite is a metal tile which comes in sheet form and can be applied with the same ease as wallpaper. It has the appearance of tile and is available in a variety of colors. CHROMITE COMPANY, 228 N. LA SALLE STREET, CHICAGO, ILL.

FIREPLACES

HEATILATOR PLAN BOOK OF MODERN FIREPLACES. The Heatilator Fireplace Unit as shown by the illustrations, has the appearance of any other fireplace. The simplicity of its operation and the advantages obtained through its use are explained by the text. One of its special features is that it throws an extra heat in addition to the heat given off by the fire itself. Just how this is accomplished is explained in detail. THE HEATILATOR COMPANY, SYRACUSE, N. Y.

AIR CONDITIONING

BREATHE "ZEPHYR AIR". Excerpts from several articles by doctors and Health Commissioners tell of the necessity of moisture in the air. The Zephyr humidifying system, advocated in this brochure, is run by water power which lowers operation cost. The numerous advantages of the Zephyr are listed and several illustrations show various models as they have been installed in residences and apartments. ZEPHYR WASHED AIR COMPANY, MINNEAPOLIS, MINN.

HEATING AND HUMIDIFYING

HUMIDITY IN THE HOME. The first of a series of booklets intended to extend popular knowledge of the science of thermology. It has been prepared and published by the Holland Institute of Thermology in an effort to reduce authentic technical data to terms readily understandable by all the members of an average American household. The text is presented in an interesting fashion and attractive sketches illustrate various points which are brought out. HOLLAND INSTITUTE OF THERMOLOGY, HOLLAND, MICH.

INCINERATORS

INCINERATORS (CHIMNEY-FED). This booklet describes the Kernerator and explains how it operates without the use of gas or other commercial fuel. The Kernerator is built in a number of sizes to meet the requirements of both small and large residences and apartments. It can be used even in a house where there is no basement, as an installation can be made on the outside of the building. KERNER INCINERATOR COMPANY, MILWAUKEE, WIS.

IN WRITING TO MANUFACTURERS FOR ANY OF THESE BOOKLETS YOU WILL FIND IT AN ADVANTAGE TO IDENTIFY YOURSELF AS A READER OF HOUSE & GARDEN

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With this modern note of convenience: Telephones throughout the house, for greater ease and comfort.

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It is really surprising how much the right telephone arrangements do add to convenience and comfort. In time and steps saved . . . in preventing "lost" calls . . . in affording privacy of conversation, when that is desired.

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AMERICAN TELEPHONE & TELEGRAPH CO. AND ASSOCIATED COMPANIES — BELL SYSTEM

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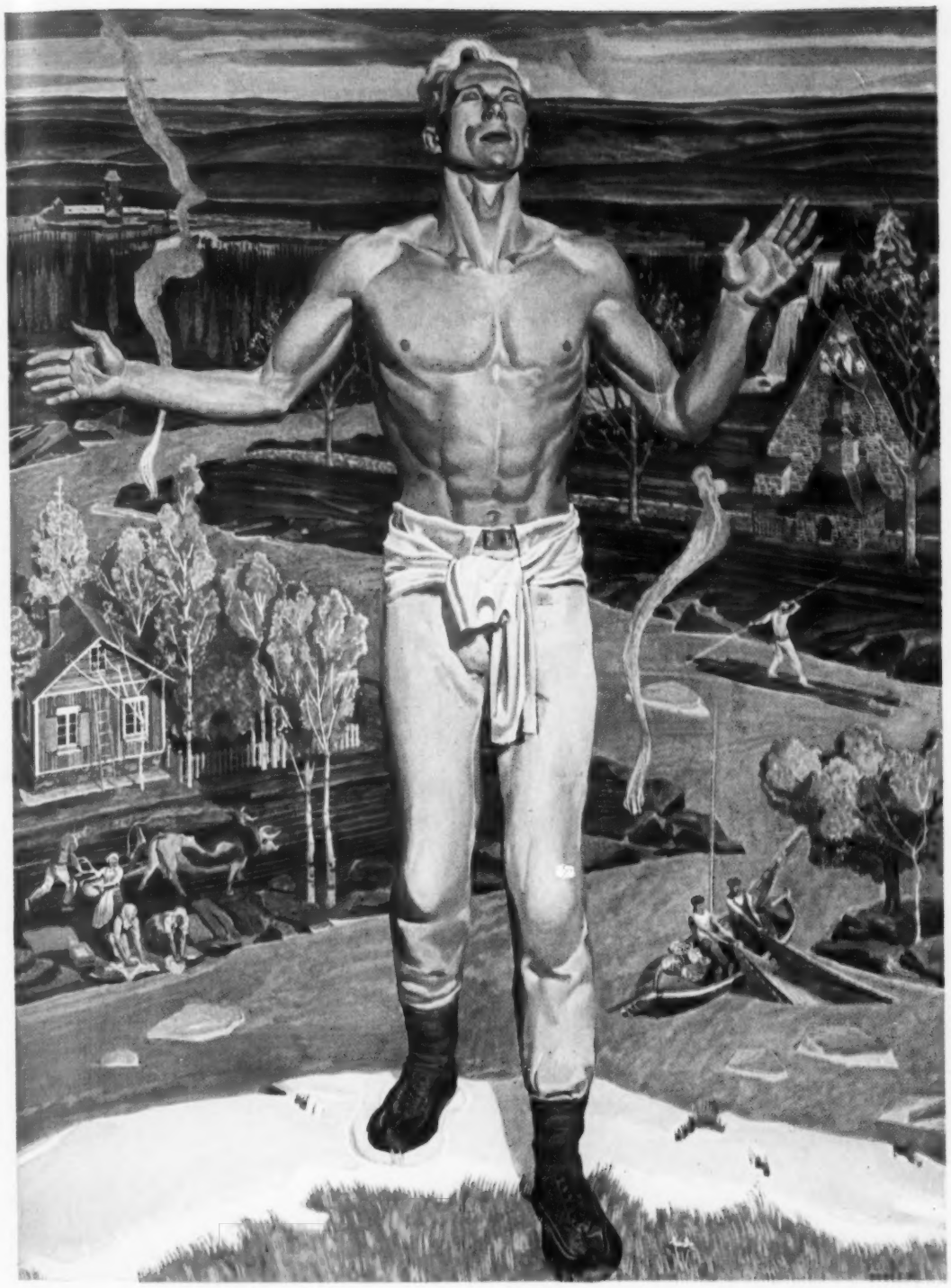
The modern bedchamber has, of course, a telephone . . . for true comfort and convenience, and quick communication in the time of possible emergency.

The kitchen telephone is essential in household business, saving steps and time, preventing such tragedies as burnt biscuits and scorched roasts.



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